Intel Product Resource Guide

Q4 2013

intel

AVNET electronics marketing

TABLE OF CONTENTS

Intel® Cache Acceleration Software
Intel® Cache Acceleration Software ... 3

Solid-State Drives
Solid-State Drives ... 4

Intel® Storage Processors
Intel® Storage Processors ... 6

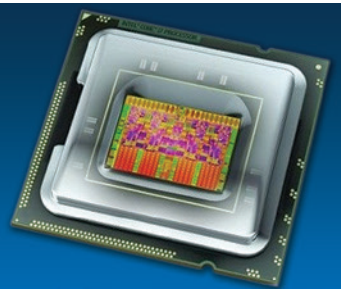
Networking Products
Adapters ... 7
Controllers ... 8

Desktop Products
Processors & Chipsets ... 10
Boards ... 14
Chipset Compatibility ... 15

Mobile Products
Processors & Chipsets ... 16

Server Products
Processors & Chipsets ... 23
Boards ... 29
Systems ... 31
Chassis ... 34
Accessories ... 35
RAID ... 37

Embedded Products
Processors ... 39



Reliable solutions, from trusted partners

Intel® and its ecosystem of hardware and software providers, including members of the Intel® Embedded and Communications Alliance (Intel® ECA), offer embedded solutions at all levels of integration to meet an array of performance, functionality and cost requirements. With Intel, embedded developers have a single vendor that offers multiple architectures, product lines, price points and feature sets.

Avnet is one of the largest value-added distributors of Intel boards, processors and systems to the electronic original equipment manufacturer (EOEM) and independent software vendor (ISV) markets. With Avnet, embedded developers have access to expert engineering, platform development, integration and post-sales support.

Together, Avnet and Intel leverage our collective resources and positions as market leaders to deliver advanced computing and platform technologies as well as extended support for long-life embedded product life cycles, all in one cohesive solution.

Embedded Products Legend

			Instructions							
Architecture	**Launch**	**Process**	**MMX**	**SSE**	**SSE2**	**SSE3**	**SSSE3**	**SSE4.1**	**SSE4.2**	**AVX**
Northwood	2002	130 nm	•	•	•					
Prescott	2004	90 nm	•	•	•	•				
Cedar Mill	2006	65 nm	•	•	•	•				
Sossaman	2006	65 nm	•	•	•	•				
Yonah	2006	65 nm	•	•	•	•				
Merom	2006	65 nm	•	•	•	•	•			
Merom (Napa)	2006	65 nm	•	•	•	•	•			
Conroe	2006	65 nm	•	•	•	•	•			
Woodcrest	2006	65 nm	•	•	•	•	•			
Clovertown	2006	65 nm	•	•	•	•	•			
Merom (Santa Rosa)	2007	65 nm	•	•	•	•	•			
Allendale	2007	65 nm	•	•	•	•	•			
Conroe-L	2007	65 nm	•	•	•	•	•			
Silverthorne	2008	45 nm	•	•	•	•	•			
Diamondville	2008	45 nm	•	•	•	•	•			
Wolfdale	2008	45 nm	•	•	•	•	•	•		
Wolfdale-DP	2008	45 nm	•	•	•	•	•	•		
Yorkfield	2008	45 nm	•	•	•	•	•	•		
Harpertown	2008	45 nm	•	•	•	•	•	•		
Penryn	2008	45 nm	•	•	•	•	•	•		
Nehalem	2008	45 nm	•	•	•	•	•	•	•	
Silverthorne-XL	2009	45 nm	•	•	•	•	•			
Pineview	2009	45 nm	•	•	•	•	•			
Tunnel Creek	2010	45 nm	•	•	•	•	•			
Westmere	2009	32 nm	•	•	•	•	•	•	•	
Sandy Bridge	2011	32 nm	•	•	•	•	•	•	•	•

Processor Legend

Heading	Advanced Technology
Turbo	Intel® Turbo Boost Technology [Speed Throttling Per Core]
vPro	Intel® vPro Technology [Multi-Threading Per CPU]
HT	Intel® Hyper-Threading Technology
VT-x	Intel® Virtualization Technology (VT-x) [Multiple Environments]
VT-d	Intel® Virtualization Technology for Directed I/O (VT-d) [Multiple Environments]
TXT	Intel® Trusted Execution Technology [Hardware-based security]
AES	AES New Instructions
64	Intel® 64 [Supports 64-bit computing]
Anti	Intel® Anti-Theft Technology
WiFi	Intel® My WiFi Technology
4G	4G WiMAX Wireless Technology
IS	Idle States
EIST	Enhanced Intel SpeedStep Technology [Power conservation]
DBS	Intel® Demand Based Switching
TMT	Thermal Monitoring Technologies
Fast	Intel® Fast Memory Access
Flex	Intel® Flex Memory Access
XDB	Execute Disable Bit [Hardware-based security]
AVX	Advanced Vector Extension [Faster Data Processing]

Abbr.	Networking Specifications
MSI	Message Signal Interrupt
VT-c	Intel® Virtualization Technology for Connectivity
NCSI	NC Sideband Interface
RSS	Receive Side Scaling
FCoE	Fiber Channel over Ethernet
vPro	Supported Under vPro
MACsec	MACsec IEEE 802.1 AE
JFS	Jumbo Frames Supported
TSPI	Time Sync Protocol Indicator
IEEE	IEEE 1588
iWARP	iWARP/RDMA
IEPM	Intel® Ethernet Power Management
DDIO	Intel® Data Direct I/O Technology
IntOff	Intelligent Offloads
10000BT	1000Base-T

Notes

Due to potential changes in products, BIOS, software, and the like, please refer to **ark.intel.com** for the latest processor/chipset compatibility. Embedded processors and chipsets have a 7+ year life cycle.

Desktop Motherboards Notes:

- Corner Field DG41CN has a 2-year warranty

Server Motherboards Notes:

- Shady Cove board includes Intel 7.1 audio controller & FireWire 800
- Willowbrook S5500WB (SSI version) is designed for “off-the-shelf” multi-rail power supplies
- Willowbrook S5500Wb12V is designed for single rail power supplies
- Order S5520HCT for Hanlan Creek (12 slot version) with TPM Module & TXT Support
- Order S5520URT for Urbanna with TPM Module & TXT Support

Server Platforms Notes:

- For maximum memory bandwidth in 5520 & 5500 based systems, Intel recommends populating memory in increments of six dimms
- Order BXSTS100P for heatsink on Bluff Creek Platform 2U Platforms include heatsinks
- Snow Hill, Thunder Hill, Willowbrook and Urbanna 2U Platforms include heatsinks
- Urbanna/Petrof Bay T platforms include a mini control panel
- Order SR2625URLXTNA for TPM Module & TXT Support
- Two passive heatsinks (BXSTS100P) included with MFS5520VI

Intel® Cache Acceleration Software

Intel® Cache Acceleration Software combined with Intel® Data Center Family SSDs is an industry unique solution that delivers application specific performance on physical servers and virtual machines via Selective Optimized Caching.

Application performance is being held back by storage speeds.

Today's multi-core, multi-CPU servers are held back by storage I/O that cannot keep up with ever-increasing demand, preventing systems from reaching their full performance potential. Traditional solutions of adding more storage, servers, or memory, adds huge expense, as well as management complexity.

Intel has the answer – software that installs on the server and uses fast SSD/Flash media to cache "hot" data, eliminating I/O latency and driving targeted application performance from back-end storage via intelligent caching, not extreme spending.

Product	Platform	Part #
INTEL® CACHE ACCELERATION SOFTWARE		
Intel® Cache Acceleration Software for Windows* for up to 400 GB of Target Cache	Windows	CAS999WLDE05000
Standard Support for Intel® CAS for Windows* for up to 400 GB of Target Cache (5 x 8 EST)	Windows	CAS999WSDE050BS
Premium Support for Intel® CAS for Windows* for up to 400 GB of Target Cache (7 x 24, incl. Holidays)	Windows	CAS999WSDE050PS
Intel® Cache Acceleration Software for Windows* for up to 800 GB of Target Cache	Windows	CAS999WLDE01000
Standard Support for Intel® CAS for Windows* for up to 800 GB of Target Cache (5 x 8 EST)	Windows	CAS999WSDE010BS
Premium Support for Intel® CAS for Windows* for up to 800 GB of Target Cache (7 x 24, incl. Holidays)	Windows	CAS999WSDE010PS
Intel® Cache Acceleration Software for Linux* Annual Subscription for up to 800 GB of Target Cache, incl. 1 year Standard Support (5 x 8 EST)	Linux	CAS999LSDE010BS
Intel® Cache Acceleration Software for Linux* Annual Subscription for up to 800 GB of Target Cache, incl. 1 year Premium Support (7 x 24, incl. Holidays)	Linux	CAS999LSDE010PS

Intel® Cache Acceleration Software:

- Installs into the Windows* or Linux* Server OS, both as a physical server and running virtually under VMware*, KVM, Citrix XenServer*, or Windows Hyper-V,* including support for VMotion and/or Live Migration while maintaining a hot cache.
- Proactively optimizes the system cache for Highly-Targeted I/O Acceleration.
- Offloads I/O from primary storage to local high-performance media, allowing storage to be used for capacity, not over-provisioned for performance.
- Available for a Free 30 day trial.

Intel® Solid State Drives

Intel® SSD 300 & 500 Series

Capacity	Launch	Code Name	Flash Memory	Form Factor	Interface	Sequential Read	Sequential Write	Lithography	Single OEM Part #	Retail 5 Pack	OEM Bulk Pack
310 SERIES (3-YEAR WARRANTY)											
40 GB	Q1'11	Soda Creek	SLC	mSATA	SATA - 3 Gb/s	170 MB/s	35 MB/s	34 nm	SSDMAEMC040G2C1		
80 GB	Q1'11	Soda Creek	SLC	mSATA	SATA - 3 Gb/s	200 MB/s	70 MB/s	34 nm	SSDMAEMC080G2C1		
313 SERIES (3-YEAR WARRANTY)											
20 GB	Q1'12	Hawley Creek	SLC	7.0 mm / 2.5"	SATAII - 3 Gb/s	220 MB/s	100 MB/s	25 nm	SSDSA2VP020G301		
20 GB	Q1'12	Hawley Creek	SLC	mSATA	SATAII - 3 Gb/s	220 MB/s	100 MB/s	25 nm	SSDMAEXC020G301		
24 GB	Q1'12	Hawley Creek	SLC	7.0 mm / 2.5"	SATAII - 3 Gb/s	220 MB/s	100 MB/s	25 nm	SSDSA2VP024G301		SSDSA2UP024G3HP
24 GB	Q1'12	Hawley Creek	SLC	mSATA	SATAII - 3 Gb/s	220 MB/s	100 MB/s	25 nm	SSDMAEXC024G301		
320 SERIES (ON ALLOCATION - TO BE REPLACED BY S3500 SERIES LAUNCHING MAY 2013)											
40 GB	Q1'11	Postville Refresh	MLC	9.5 mm / 2.5"	SATA - 3 Gb/s	200 MB/s	45 MB/s	25 nm	SSDSA2CT040G301	SSDSA2CT040G3B5	SSDSA2CT040G310
40 GB	Q1'11	Postville Refresh	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	200 MB/s	45 MB/s	25 nm	SSDSA2BT040G301		SSDSA2BT040G3
80 GB	Q1'11	Postville Refresh	MLC	9.5 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	90 MB/s	25 nm	SSDSA2CW080G301	SSDSA2CW080G3B5	SSDSA2CW080G310
80 GB	Q1'11	Postville Refresh	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	90 MB/s	25 nm	SSDSA2BW080G301		SSDSA2BW080G3
80 GB	Q1'11	Postville Refresh	MLC	1.8"	microSATA - 3 Gb/s	270 MB/s	90 MB/s	25 nm	SSDSA1NW080G301		
120 GB	Q1'11	Postville Refresh	MLC	9.5 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	130 MB/s	25 nm	SSDSA2CW120G301	SSDSA2CW120G3B5	SSDSA2CW120G310
120 GB	Q1'11	Postville Refresh	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	130 MB/s	25 nm	SSDSA2BW120G301		SSDSA2BW120G3
160 GB	Q1'11	Postville Refresh	MLC	9.5 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	165 MB/s	25 nm	SSDSA2CW160G301	SSDSA2CW160G3B5	SSDSA2CW160G310
160 GB	Q1'11	Postville Refresh	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	165 MB/s	25 nm	SSDSA2BW160G301		SSDSA2BW160G3
160 GB	Q1'11	Postville Refresh	MLC	1.8"	microSATA - 3 Gb/s	270 MB/s	130 MB/s	25 nm	SSDSA1NW160G301		
300 GB	Q1'11	Postville Refresh	MLC	9.5 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	205 MB/s	25 nm	SSDSA2CW300G301	SSDSA2CW300G3B5	SSDSA2CW300G310
300 GB	Q1'11	Postville Refresh	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	205 MB/s	25 nm	SSDSA2BW300G301		SSDSA2BW300G3
300 GB	Q2'11	Postville Refresh	MLC	1.8"	mSATA - 3 Gb/s	270 MB/s	130 MB/s	25 nm	SSDSA1NW300G301		
600 GB	Q1'11	Postville Refresh	MLC	9.5 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	220 MB/s	25 nm	SSDSA2CW600G301	SSDSA2CW600G3B5	SSDSA2CW600G310
600 GB	Q1'11	Postville Refresh	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	270 MB/s	220 MB/s	25 nm	SSDSA2BW600G301		
330 SERIES (3-YEAR WARRANTY)											
60 GB	Q2'12	Maple Crest	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	400 MB/s	25 nm		SSDSC2CT060A3K5	
120 GB	Q2'12	Maple Crest	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	450 MB/s	25 nm		SSDSC2CT120A3K5	
180 GB	Q2'12	Maple Crest	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	450 MB/s	25 nm		SSDSC2CT180A3K5	
240 GB	Q2'12	Maple Crest	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	450 MB/s	25 nm		SSDSC2CT240A3K5	
335 SERIES (3-YEAR WARRANTY)											
240 GB	Q4'12	Jay Crest	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	400 MB/s	25 nm		SSDSC2CT240A4K5	
520 SERIES											
60 GB	Q1'12	Cherryville	MLC	9.5 mm / 2.5"	SATA3 - 6 Gb/s	550 MB/s	500 MB/s	25 nm			SSDSC2CW060A310
120 GB	Q1'12	Cherryville	MLC	9.5 mm / 2.5"	SATA3 - 6 Gb/s	550 MB/s	500 MB/s	25 nm		SSDSC2CW120A3B5	SSDSC2CW120A310
120 GB	Q2'12	Cherryville	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	550 MB/s	500 MB/s	25 nm	SSDSA2BW120A301		
180 GB	Q1'12	Cherryville	MLC	9.5 mm / 2.5"	SATA3 - 6 Gb/s	550 MB/s	500 MB/s	25 nm	SSDSC2CW180A301	SSDSC2CW180A3K5	SSDSC2BW180A3HP
180 GB	Q2'12	Cherryville	MLC	7.0 mm / 2.5"	SATA - 3 Gb/s	550 MB/s	500 MB/s	25 nm	SSDSC2BW180A301		
240 GB	Q1'12	Cherryville	MLC	9.5 mm / 2.5"	SATA3 - 6 Gb/s	550 MB/s	500 MB/s	25 nm	SSDSC2CW240A310	SSDSC2CW240A3K5	
240 GB	Q1'12	Cherryville	MLC	7.0 mm / 2.5"	SATA3 - 6 Gb/s	550 MB/s	500 MB/s	25 nm	SSDSC2BW240A301		SSDSC2BW240A3HP
480 GB	Q1'12	Cherryville	MLC	9.5 mm / 2.5"	SATA3 - 6 Gb/s	550 MB/s	500 MB/s	25 nm	SSDSC2CW480A310	SSDSC2CW480A3K5	
525 SERIES											
30 GB	Q1'13	Lincoln Crest	MLC	mSATA	mSATA - 6 Gb/s	500 MB/s	275 MB/s	25 nm	SSDMCEAC030B301		SSDMCEAC030B3
60 GB	Q1'13	Lincoln Crest	MLC	mSATA	mSATA - 6 Gb/s	550 MB/s	475 MB/s	25 nm	SSDMCEAC060B301		SSDMCEAC060B3
120 GB	Q1'13	Lincoln Crest	MLC	mSATA	mSATA - 6 Gb/s	550 MB/s	500 MB/s	25 nm	SSDMCEAC120B301		SSDMCEAC120B3
180 GB	Q1'13	Lincoln Crest	MLC	mSATA	mSATA - 6 Gb/s	550 MB/s	520 MB/s	25 nm	SSDMCEAC180B301		SSDMCEAC180B3
240 GB	Q1'13	Lincoln Crest	MLC	mSATA	mSATA - 6 Gb/s	550 MB/s	520 MB/s	25 nm	SSDMCEAC240B301		SSDMCEAC240B3
530 SERIES											
80 GB	Q3'13	Dale Crest	MLC	80 mm / M.2	SATA - 6 Gb/s	540 MB/s	490 MB/s		SSDSCKGF080A4ES		SSDSCKGW080A4
80 GB	Q3'13	Dale Crest	MLC	mSATA	mSATA - 6 Gb/s	540 MB/s	480 MB/s		SSDMCEAF080A4ES		SSDMCEAW080A4
180 GB	Q3'13	Dale Crest	MLC	mSATA	mSATA - 6 Gb/s	540 MB/s	480 MB/s		SSDMCEAF180A4ES		SSDMCEAW180A4
180 GB	Q3'13	Dale Crest	MLC	80 mm / M.2	SATA - 6 Gb/s	540 MB/s	480 MB/s		SSDSCKGF180A4ES		SSDSCKGW180A4
180 GB	Q3'13	Dale Crest	MLC	2.5"	SATA - 6 Gb/s	540 MB/s	480 MB/s		SSDSC2BW180A4ES	SSDSC2BW180A4K5	SSDSC2BW180A4
240 GB	Q3'13	Dale Crest	MLC	mSATA	mSATA - 6 Gb/s	540 MB/s	480 MB/s		SSDMCEAF240A4ES		SSDMCEAW240A4
240 GB	Q3'13	Dale Crest	MLC	80 mm / M.2	SATA - 6 Gb/s	540 MB/s	480 MB/s		SSDSC2BW240A4ES	SSDSC2BW240A4K5	SSDSC2BW240A4
360 GB	Q3'13	Dale Crest	MLC	80 mm / M.2	SATA - 6 Gb/s	540 MB/s	490 MB/s		SSDSCKHW360A4ES		

Intel® Solid State Drives

Intel® SSD 700, 900, 1500 & 3000 Series

Capacity	Launch	Code Name	Flash Memory	Form Factor	Interface	Sequential Read	Sequential Write	Lithography	Single OEM Part #	OEM Bulk Pack
710 SERIES										
100 GB	Q3'11	Lyndonville	MLC	2.5"	SATA - 3 Gb/s	270 MB/s	170 MB/s	25 nm	SSDSA2BZ100G301	SSDSA2BZ100G3
200 GB	Q3'11	Lyndonville	MLC	2.5"	SATA - 3 Gb/s	270 MB/s	210 MB/s	25 nm	SSDSA2BZ200G301	SSDSA2BZ200G3
300 GB	Q3'11	Lyndonville	MLC	2.5"	SATA - 3 Gb/s	270 MB/s	210 MB/s	25 nm	SSDSA2BZ300G301	SSDSA2BZ300G3
711 SERIES										
32 GB		Postville	SLC	7.0 mm / 2.5"	SATA - 3 Gb/s			34 nm	SSDSA2SH032G201	SSDSA2SH032G2
64 GB		Postville	SLC	7.0 mm / 2.5"	SATA - 3 Gb/s			34 nm	SSDSA2SH064G201	SSDSA2SH064G2
910 SERIES (5-YEAR WARRANTY)										
400 GB	Q2'12	Ramsdale	MLC	1/2 Height PCIe	PCIe Gen2 x8	1000 MB/s	750 MB/s	25 nm	SSDPED0X400G301	
800 GB	Q2'12	Ramsdale	MLC	1/2 Height PCIe	PCIe Gen2 x8	2000 MB/s	1000 MB/s	25 nm	SSDPEDPX800G301	
S3500 SERIES										
80 GB	Q2'13	Wolfsville	MLC	2.5"	SATA - 6 Gb/s	340 MB/s	100 MB/s	20 nm	SSDSC2BB080G401	SSDSC2BB080G4
80 GB	Q2'13	Wolfsville	MLC	1.8"	SATA - 6 Gb/s	340 MB/s	100 MB/s	20 nm	SSDSC1NB080G401	SSDSC1NB080G4
120 GB	Q2'13	Wolfsville	MLC	2.5"	SATA - 6 Gb/s	445 MB/s	135 MB/s	20 nm	SSDSC2BB120G401	SSDSC2BB120G4
160 GB	Q2'13	Wolfsville	MLC	2.5"	SATA - 6 Gb/s	475 MB/s	175 MB/s	20 nm	SSDSC2BB160G401	SSDSC2BB160G4
240 GB	Q2'13	Wolfsville	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	260 MB/s	20 nm	SSDSC2BB240G401	SSDSC2BB240G4
240 GB	Q2'13	Wolfsville	MLC	1.8"	SATA - 6 Gb/s	500 MB/s	260 MB/s	20 nm	SSDSC1NB240G401	SSDSC1NB240G4
300 GB	Q2'13	Wolfsville	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	315 MB/s	20 nm	SSDSC2BB300G401	SSDSC2BB300G4
400 GB	Q2'13	Wolfsville	MLC	1.8"	SATA - 6 Gb/s	500 MB/s	380 MB/s	20 nm	SSDSC1NB400G4ES	SSDSC1NB400G4
480 GB	Q2'13	Wolfsville	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	410 MB/s	20 nm	SSDSC2BB480G4ES	SSDSC2BB480G4
800 GB	Q2'13	Wolfsville	MLC	2.5"	SATA - 6 Gb/s	500 MB/s	450 MB/s	20 nm	SSDSC2BB800G4ES	SSDSC2BB800G4
S3700 SERIES										
100 GB	Q4'12	Taylorsville	MLC	2.5"	SATA3 - 6 Gb/s	500 MB/s	200 MB/s	25 nm	SSDSC2BA100G301	
200 GB	Q4'12	Taylorsville	MLC	2.5"	SATA3 - 6 Gb/s	500 MB/s	365 MB/s	25 nm	SSDSC2BA200G301	
400 GB	Q4'12	Taylorsville	MLC	2.5"	SATA3 - 6 Gb/s	500 MB/s	460 MB/s	25 nm	SSDSC2BA400G301	
800 GB	Q4'12	Taylorsville	MLC	2.5"	SATA3 - 6 Gb/s	500 MB/s	460 MB/s	25 nm	SSDSC2BA800G301	
PRO 1500 SERIES (5-YEAR WARRANTY)										
80 GB	Q3'13	Sierra Star	MLC	80 mm / M.2	SATA - 6 Gb/s	540 MB/s	480 MB/s	20 nm	TBD	
120 GB	Q3'13	Sierra Star	MLC	2.5"	SATA - 6 Gb/s			20 nm	TBD	
180 GB	Q3'13	Sierra Star	MLC	2.5"	SATA - 6 Gb/s			20 nm	SSDSC2BF180A4ES	
180 GB	Q3'13	Sierra Star	MLC	80 mm / M.2	SATA - 6 Gb/s			20 nm	TBD	
240 GB	Q3'13	Sierra Star	MLC	2.5"	SATA - 6 Gb/s			20 nm	TBD	
360 GB	Q3'13	Sierra Star	MLC	80 mm / M.2	SATA - 6 Gb/s			20 nm	TBD	

Intel® Storage Processors

Intel® Atom™ C1200 & C2000

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Lithography	Max TDP	Embedded Option	# PCIe Lanes	Turbo	HT	VT-x	AES	IS	# USB Ports	# SATA Ports	Max SATA 6.0 Gb/s Ports	UART	Socket	OEM Tray Part #
INTEL® ATOM™ S1200 FAMILY																				
S1289	Briarwood	Q2'13	2 / 4	2.00 GHz	1 MB	32 nm	14.1 W	No	40		+	+						+	FCBGA1283	DH80S1289
S1279	Briarwood	Q2'13	2 / 4	1.60 GHz	1 MB	32 nm	13.1 W	No	40		+	+						+	FCBGA1283	DH80S1279
S1269	Briarwood	Q2'13	2 / 4	1.60 GHz	1 MB	32 nm	11.7 W	No	32		+	+						+	FCBGA1283	DH80S1269
INTEL® ATOM™ PROCESSOR C2000 FAMILY																				
C2758	Rangeley	Q3'13	8 / 8	2.40 GHz	4 MB	22 nm	20 W	Yes	16			+	+	+	4	6	2	2	FCBGA1283	FH8065501516702
C2738	Rangeley	Q3'13	8 / 8	2.40 GHz	4 MB	22 nm	20 W	Yes	16			+	+	+	4	6	2	2	FCBGA1283	FH8065501516763
C2718	Rangeley	Q3'13	8 / 8	2.00 GHz	4 MB	22 nm	18 W	Yes	16			+	+	+	4	6	2	2	FCBGA1283	FH8065501516708
C2558	Rangeley	Q3'13	4 / 4	2.40 GHz	4 MB	22 nm	15 W	Yes	16			+	+	+	4	6	2	2	FCBGA1283	FH8065501516709
C2538	Rangeley	Q3'13	4 / 4	2.40 GHz	2 MB	22 nm	15 W	Yes	16			+	+	+	4	6	2	2	FCBGA1283	FH8065501516762
C2518	Rangeley	Q3'13	4 / 4	1.70 GHz	2 MB	22 nm	13 W	Yes	16			+	+	+	4	6	2	2	FCBGA1283	FH8065501516710
C2358	Rangeley	Q3'13	2 / 2	1.70 GHz	1 MB	22 nm	7 W	Yes	8	+		+	+	+	4	4	2	2		TBD
C2338	Rangeley	Q3'13	2 / 2	1.70 GHz	1 MB	22 nm	7 W	Yes	8	+		+	+	+	4	6	2	2	FCBGA1283	FH8065501516761

Intel® Networking Products

Intel® LAN Adapters

Product Name	Code Name	Release	Cable Medium	Bracket Height	Cabling Type	Embedded Option	Max TDP	# of Ports	Interface Type	OEM Part #	Retail Part #	Bulk Part #
INTEL® GIGABIT DESKTOP ADAPTER												
Intel® Gigabit CT Desktop Adapter	Shelter Island	Q3'08	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	1.9 W	Single	PCIe v1.1 (2.5 GT/s)	E1G31CTG1P20	EXPI9301CT	EXPI9301CTBLK
Intel® PRO/1000 GT Desktop Adapter	Stebbins 2	Q3'04	Copper	Low Profile / Full Height	Category-5 up to 100 m	No		Single	PCI	PWLA8391GTG1P20	PWLA8391GT	PWLA8391GTBLK
INTEL® 10 GIGABIT SERVER ADAPTERS												
Intel® Ethernet Server Bypass Adapter X520-SR2		Q2'13	Fiber	Low Profile / Full Height	MMF 62.5/50 µm, up to 300 m	No	6.9 W	Dual	PCIe v2.0 (5.0 GT/s)		X520SR2BP	X520SR2BPBLK
Intel® Ethernet Server Bypass Adapter X540-T2		Q2'13	Copper	Low Profile / Full Height	RJ-45 Category-6 up to 55 m; Category-6A up to 100 m	No	9.8 W	Dual	PCIe v2.1 (5 GT/s)		X540T2BP	X540T2BPBLK
Intel® Ethernet Converged Network Adapter X540-T1		Q3'12	Copper	Low Profile / Full Height	RJ-45 Category-6 up to 55 m; Category-6A up to 100 m	No		Single	PCIe v2.1 (5 GT/s)	X540T1G1P5	X540T1	
Intel® Ethernet Converged Network Adapter X540-T2	Twin Pond	Q1'12	Copper	Low Profile / Full Height	RJ-45 Category-6 up to 55 m; Category-6A up to 100 m	No	13.4 W	Dual	PCIe v2.1 (5 GT/s)	X540T2G1P5	X540T2	X540T2BLK
Intel® Ethernet Converged Network Adapter X520-T2	Iron Pond T2	Q3'10	Copper	Low Profile / Full Height	Category-6A up to 100 m	No	19 W	Dual	PCIe v2.0 (5.0 GT/s)	E10G42BTG1P5	E10G42BT	
Intel® 10 Gigabit AT2 Server Adapter	Copper Pond	Q3'09	Copper	Low Profile / Full Height	Category-6A up to 100 m	No	15.5 W	Single	PCIe v2.0 (2.5 GT/s)	E10G41AT2G1P5	E10G41AT2	
Intel® Ethernet Server Adapter X520-DA2	Spring Fountain	Q3'09	Copper	Low Profile / Full Height	SFP+ Direct Attached Twin Axial Cabling up to 10 m	No	8.6 W	Dual	PCIe v2.0 (5.0 GT/s)	E10G42BTDAG1P5	E10G42BTDA	
Intel® Ethernet Server Adapter X520-LR1	Spring Fountain	Q3'09	Fiber	Low Profile / Full Height	SMF up to 10 km	No	8 W	Single	PCIe v2.0 (5.0 GT/s)		E10G41BFLR	
Intel® Ethernet Server Adapter X520-SR1	Spring Fountain	Q3'09	Fiber	Low Profile / Full Height	MMF up to 300 m	No	8 W	Single	PCIe v2.0 (5.0 GT/s)	E10G41BFSRG1P5	E10G41BFSR	
Intel® Ethernet Server Adapter X520-SR2	Spring Fountain	Q3'09	Fiber	Low Profile / Full Height	MMF up to 300 m	No	10.7 W	Dual	PCIe v2.0 (5.0 GT/s)	E10G42BFSRG1P5	E10G42BFSR	
NetEffect™ Ethernet Server Cluster Adapter CX4	Dover	Q2'09	Copper	Low Profile / Full Height	8 pair, 100 ohm Twinax up to 15 m	No	6.2 W	Single	PCIe v1.1 (2.5 GT/s)		E10G81GT2CX4	
NetEffect™ Ethernet Server Cluster Adapter DA		Q2'09	Copper	Low Profile / Full Height	SFP+ Direct Attach Twin Axial Cabling up to 10 m	No	8.5 W	Single	PCIe v1.1 (2.5 GT/s)		E10G81G2P	
NetEffect™ Ethernet Server Cluster Adapter SFP+ SR	Argus SR	Q2'09	Fiber	Low Profile / Full Height	MMF up to 300 m	No	9 W	Single	PCIe v1.1 (2.5 GT/s)		E10G81GF2SR	
Intel® 10 Gigabit AF DA Dual Port Server Adapter	Long Cove	Q2'08	Copper	Low Profile / Full Height	SFP+ Direct Attached Twin Axial Cabling up to 10 m	No	12.2 W	Dual	PCIe v2.0 (2.5 GT/s)	E10G42AFDAGP5	E10G42AFDA	
Intel® 10 Gigabit CX4 Dual Port Server Adapter	Cedar Cove	Q2'08	Copper	Low Profile / Full Height	8 pair, 100 ohm Twin Axial Cabling up to 15 m	No	4.9 W	Dual	PCIe	EXPX9502CX4G1P5	EXPX9502CX4	
INTEL® GIGABIT SERVER ADAPTERS												
Intel® Ethernet Server Adapter I250-T1		Q1'13	Copper			No	1 W	Single	RJ45	I210T1G1P20	I210T1	I210T1BLK
Intel® Ethernet Server Adapter I350-F2		Q4'11	Fiber	Low Profile / Full Height	MMF 50 µm up to 550 m; MMF 62.5 µm up to 275 m	No	5.5 W	Dual	PCIe v2.0 (5.0 GT/s)	I350F2G1P20	E350F2	I350F2BLK
Intel® Ethernet Server Adapter I350-F4		Q4'11	Fiber	Full Height	MMF 50 µm up to 550 m; MMF 62.5 µm up to 275 m	No	6 W	Quad	PCIe v2.0 (5.0 GT/s)	I350F4G1P20	I350F4	I350F4BLK
Intel® Ethernet Server Adapter I350-T2	Stonylake	Q2'11	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	4.4 W	Dual	PCIe v2.0 (5.0 GT/s)		I350T2	I350T2BLK
Intel® Ethernet Server Adapter I350-T4	Stonylake	Q2'11	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	5 W	Quad	PCIe v2.0 (5.0 GT/s)		I350T4	I350T4BLK
Intel® Ethernet Server Adapter I340-F4	Bartonville	Q1'11	Fiber	Full Height	MMF 50 µm up to 550 m; MMF 62.5 µm up to 275 m	No	4.5 W	Quad	PCIe v2.0 (5.0 GT/s)	E1G44HFG1P20	E1G44HF	E1G44HFBLK
Intel® Gigabit ET2 Quad Port Server Adapter	Portville	Q3'10	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	8.4 W	Quad	PCIe v2.0 (2.5 GT/s)	EIG44ETG2P20		E1G44ET2BLK
Intel® Ethernet Server Adapter I340-T2	Bartonville	Q2'10	Copper	Low Profile / Full Height	RJ-45 Category-5, up to 100 m	No		Dual	PCIe v2.0 (5.0 GT/s)	E1G42HTG1P20		
Intel® Ethernet Server Adapter I340-T4	Bartonville	Q2'10	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	4.3 W	Quad	PCIe v2.0 (5.0 GT/s)	E1G44HTG1P20	EIG44HT	E1G44HTBLK
Intel® Gigabit EF Dual Port Server Adapter	Lunaville	Q4'08	Fiber	Low Profile / Full Height	MMF 50 µm up to 550 m; MMF 62.5 µm up to 275 m	No	2.2 W	Dual	PCIe v2.0 (2.5 GT/s)	E1G42EFG1P20	E1G42EF	E1G42EFBLK
Intel® Gigabit ET Dual Port Server Adapter	Portville	Q3'08	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	2.9 W	Dual	PCIe v2.0 (2.5 GT/s)	E1G42ETG1P20		E1G42ETBLK
Intel® PRO/1000 PT Server Adapter	Glyndon	Q4'05	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	3.3 W	Single	PCIe v1.0a (2.5 GT/s)	EXPI9400PTG2P20	EXPI9400PT	EXPI9400PTBLK
Intel® PRO/1000 PT Dual Port Server Adapter	Redwater	Q4'05	Copper	Low Profile / Full Height	Category-5 up to 100 m	No	4.95 W	Dual	PCIe v1.0a (2.5 GT/s)	EXPI9402PTG2P20	EXPI9402PT	EXPI9402PTBLK
Intel® PRO/1000 PF Server Adapter	Sheepshead Bay	Q4'05	Fiber	Low Profile / Full Height	MMF 50 µm up to 550 m; MMF 62.5 µm up to 275 m	No	3.3 W	Single	PCIe v1.0a (2.5 GT/s)	EXPI9400PFG2P20	EXPI9400PF	EXPI9400PFBLK
Intel® PRO/1000 PF Dual Port Server Adapter	Bretona	Q4'05	Fiber	Low Profile / Full Height	MMF 50 µm up to 550 m; MMF 62.5 µm up to 275 m	No	3.3 W	Dual	PCIe v1.0a (2.5 GT/s)	EXPI9402PFG2P20	EXPI9402PF	EXPI9402PFBLK
Intel® PRO/1000 MT Server Adapter	Everson	Q3'03	Copper	Low Profile / Full Height	Category-5 up to 100 m	No		Single	PCI-X	PWLA8490MTG1L20	PWLA8490MT	PWLA8490MTBLK5
Intel® PRO/1000 MT Dual Port Server Adapter	Double Barrow	Q3'03	Copper	Low Profile / Full Height	Category-5 up to 100 m	No		Dual	PCI-X	PWLA8492MTG2P20	PWLA8492MT	PWLA8492MTBLK5
Intel® PRO/1000 MF Dual Port Server Adapter	Eldridge	Q3'03	Fiber	Low Profile / Full Height		No		Dual	PCI-X	PWLA8492MFG3P20	PWLA8492MF	PWLA8492MFBLK5

Intel® Networking Products

Intel® LAN Controllers

Product #	Code Name	Release	EOL	Socket	Embedded Option	Lithography	Max TDP	# of Ports	Interface Type	MSI	VT-c	NCSI	RSS	FCoE	JFS	1000BT	MACsec	vPro	TSPI	IEEE	DDIO	IntOff	Tape/Tray Part #
INTEL® 10 GIGABIT ETHERNET NETWORK CONNECTION																							
X540-BT2	Twinville	Q4'12		FCBGA576	Yes	40 nm	14 W	Dual	PCIe v2.1 (5.0 GT/s)		+	+		+	+	+	+			+		+	JLX540BT2
X540-AT2	Twinville	Q1'12		FCBGA576	Yes	40 nm	12.5 W	Dual	PCIe v2.1 (5.0 GT/s)					+			+			+	+	+	JLX540AT2
82599EN	Niantic	Q4'11		FCBGA576	Yes	65 nm		Single	PCIe v2.0 (5.0 GT/s)			+			+		+						JL82599EN
82599EB	Niantic	Q2'09		FCBGA576	Yes	65 nm		Dual	PCIe v2.0 (5.0 GT/s)	+	+	+	+	+	+		+		+				JL82599EB
82599ES	Niantic	Q2'09		FCBGA576	Yes	65 nm		Dual	PCIe v2.0 (5.0 GT/s)	+	+	+	+	+	+		+		+				JL82599ES
82598EB	Oplin	Q3'07	Q1'15	FCBGA883	Yes	90 nm	6.5 W	Dual	PCIe v2.0 (2.5 GT/s)	+	+	+	+		+								JL82598EB
INTEL® GIGABIT ETHERNET NETWORK CONNECTION																							
I218-LM	Clarkville	Q1'13		QFN48	Yes	40 nm	0.5 W	Single							+	+		+		+			WGI218LM
I218-V	Clarkville	Q1'13	Q1'21	QFN48	Yes	40 nm	0.5 W	Single							+	+				+			WGI218V
I217-LM	Clarkville	Q4'12	Q1'20	QFN48	No	40 nm	0.5 W	Single							+	+				+			WGI217LM
I217-V	Clarkville	Q4'12	Q1'20	QFN48	Yes	40 nm	0.5 W	Single							+	+				+			WGI217V
I210-AT	Springville	Q4'12		PQFN64	Yes			Single	PCIe v2.1 (2.5 GT/s)			+			+	+				+			WGI210IT
I210-IS	Springville	Q4'12		PQFN64	Yes			Single	PCIe v2.1 (2.5 GT/s)			+			+					+			WGI210AS
I210-IT	Springville	Q4'12		PQFN64	Yes			Single	PCIe v2.1 (2.5 GT/s)			+			+	+	+			+			WGI210AT
I211-AT	Pearsonville	Q4'12		PQFN64	Yes			Single	PCIe v2.1 (2.5 GT/s)						+	+				+			WGI211AT
I347-AT4		Q4'11		BGA196	Yes			Quad	SGMII						+	+							PCI347AT4
I350-BT2	Powerville	Q2'11		PBGA576	Yes		2.8 W	Dual	PCIe v2.0 (5.0 GT/s)	+	+	+	+	+	+				+				NHI350BT2
I350-AM2	Powerville	Q2'11		PBGA256	Yes		2.8 W	Dual	PCIe v2.0 (2.5 GT/s)	+	+	+	+		+				+				NHI350AM2
I350-AM4	Powerville	Q2'11		PBGA256	Yes		4 W	Quad	PCIe v2.0 (2.5 GT/s)	+	+	+	+		+				+				NHI350AM4
82579LM	Lewisville	Q1'11	Q1'19	QFN48	Yes	90 nm	0.66 W	Single	PCIe v1.1 (2.5 GT/s)				+		+		+		+				WG82579LM
82579V	Lewisville	Q1'11	Q1'19	QFN48	Yes	90 nm	0.66 W	Single	PCIe v1.1 (2.5 GT/s)				+		+				+				WG82579V
82580DB	Barton Hills	Q1'10	Q1'19	PBGA256	Yes	90 nm		Dual	PCIe v2.0 (5.0 GT/s)	+		+	+		+				+				NH82580DB
82580EB	Barton Hills	Q1'10	Q1'19	PBGA256	Yes	90 nm	3.5 W	Quad	PCIe v2.0 (5.0 GT/s)	+	+	+	+		+				+				NH82580EB
82583V	Colleyville	Q2'09	Q1'18	PQFN64	Yes			Single	PCIe v1.0a (2.5 GT/s)										+				WG82583V
82574IT	Hartwell	Q2'08	Q1'18	PQFN64	Yes	90 nm	0.727 W	Single	PCIe v1.1 (2.5 GT/s)	+		+	+		+				+				WG82574IT
82574L	Hartwell	Q2'08	Q1'18	PQFN64	Yes	90 nm	0.727 W	Single	PCIe v1.1 (2.5 GT/s)	+		+	+		+				+				WG82574L
82576EB	Kawela	Q1'09	Q1'17	BGA576	Yes	90 nm	2.8 W	Dual	PCIe v2.0 (2.5 GT/s)	+	+	+	+		+		+		+				JL82576EB
82575EB	Zoar	Q2'07	Q1'17	BGA576	Yes	90 nm	2.8 W	Dual	PCIe v2.0 (2.5 GT/s)	+	+	+	+		+								JL82575EB
82573V	Tekoa	Q2'05	Q1'14	TBGA196	Yes	130 nm	1.4 W	Single	PCIe v1.0a (2.5 GT/s)														RC82573V
82573L	Vidalia	Q3'05	Q1'15	TBGA196	Yes	130 nm	1.3 W	Single	PCIe v1.0a (2.5 GT/s)														PC82573L
82573E	Tekoa	Q2'05	Q1'14	TBGA196	Yes	130 nm	1.3 W	Single	PCIe v1.0a (2.5 GT/s)														PC82573E
82572EI	Rimon	Q4'05	Q1'16	BGA256	Yes	90 nm	2.14 W	Single	PCIe v1.0a (2.5 GT/s)														JL82572EI
82571EB	Ophir	Q3'05	Q1'16	BGA256	Yes	90 nm	3.43 W	Dual	PCIe v1.0a (2.5 GT/s)	+			+		+								JL82571EB
82577LM	Hanksville	Q2'09	Q1'17	QFN48	No	90 nm	0.66 W	Single	PCIe v1.1 (2.5 GT/s)						+			+	+				WG82577LM
82567V	Boazman	Q2'08	Q1'17	QFN56	Yes	90 nm	0.64 W	Single	GLCI/LCI								+	+		+			WG82567V
82567LM	Boazman	Q1'08	Q1'17	QFN56	Yes	90 nm	0.64 W	Single	GLCI/LCI				+		+		+	+					WG82567LM
82563EB	Gilgal 2	Q1'06	Q1'15	TQFP100	Yes	150 nm	2.6 W	Dual	GLCI/LCI														HY82563EB
82546GB	Anvik II	Q3'03	Q1'16	PBGA364	Yes	150 nm		Dual	PCI-X														FW82546GB
82545GM	ATTLA	Q3'03	Q1'14	T-PBGA364	Yes	150 nm	1.5 W	Single	PCI-X														PC82545GM
82541PI	Tabor 3	Q1'04	Q1'14	PBGA196	Yes	130 nm	1 W	Single	PCI														GD82541PI
82541ER	Tabor	Q1'04	Q1'14	PBGA196	Yes	130 nm		Single	PCI														LU82541ER
82540EP	Kenai 32	Q3'06	Q3'13	T-PBGA196	Yes	150 nm		Single	PCI														RC82540EP
82540EM	Kenai 32	Q3'02	Q3'13	T-PBGA196	Yes	150 nm	1.4 W	Single	PCI					+	+		+	+		+			RC82540EM

Intel® Networking Products

Intel® Ethernet Switching Components

Product #	Code Name	Release	EOL	Embedded Option	Lithography	Max TDP	Max Port Bandwidth	Max SGMII Ports	Max XAUI Ports	FlexPipe	Adv Load Bal	CEE/DCB	Server Virt Sup	Adv Tunneling	Part #
INTEL® ETHERNET SWITCHES															
FM5224	Alta Canyon	Q1'13	2H'23	Yes	65 nm	102 W	240 G	72	2	+	+	+	+		EZFM5224A
FM6324		Q1'13	2H'23	Yes	65 nm	102 W	240 G	72	24	+	+	+	+		EZFM6324A
FM6348		Q1'13	2H'23	Yes	65 nm	142 W	480 G	72	24	+	+	+	+		
FM6364		Q1'13	2H'23	Yes	65 nm	195 W	640 G	72	24	+	+	+	+	+	EZFM6364A
FM6724	Alta Canyon	Q1'13	2H'23	Yes	65 nm	102 W	240 G	72	24	+	+	+	+		EZFM6724A
FM6764	Alta Canyon	Q1'13	2H'23	Yes	65 nm	195 W	640 G	72	24	+	+	+	+		EZFM6764A
FM4224		Q1'08	2H'18	Yes	130 nm	47 W	240 G	24	24		+	+	+		EZFM4224F1433E
FM4212		Q1'08	2H'18	Yes	130 nm	30 W	120 G	12	12		+	+	+		EZFM4212F1433C
FM4105	Bali	Q1'08	1H'18	Yes	130 nm	17 W	36 G	18	2		+	+	+		EZFM4105F897E
FM4112		Q1'08	2H'18	Yes	130 nm	27.5 W	96 G	24	8		+	+	+		
FM4410		Q1'08	2H'18	Yes	130 nm	26 W	90 G	16	8		+	+	+		FBFM4410F529E
FM2224		Q1'06	1H'14	No	130 nm	23.5 W	240 G	24	24						FBFM2224F1433E
FM2212		Q1'06	1H'14	No	130 nm	18 W	120 G	12	12						FBFM2212F1433E
FM2112		Q1'06	1H'14	No	130 nm	14.3 W	96 G	24	8						FBFM2112F897E

Intel® Wi-Fi Products

Product #	Release	Band	Board Form Factor	Max Speed	Integrated Bluetooth	Interface Type	Wireless Display	4G WiMAX	vPro	SCT	HMC Part #	M.2 Part #
INTEL® WIRELESS 7200 SERIES												
Intel® Wireless-N 7260	Q2'13		PCIe Half Mini Card/ M.2	300 Mbps	Yes	PCIe/USB	+			+	7260.HMWBNG	7260.NGWBNG
Intel® Dual Band Wireless-N 7260	Q2'13		PCIe Half Mini Card/ M.2 (NGFF)	300 Mbps	Yes	PCIe/USB	+		+	+	7260.HMWNBG	7260.NGWNBG
Intel® Dual Band Wireless-AC 7260	Q2'13		PCIe Half Mini Card/ M.2 (NGFF)	300/867 Mbps	Yes	PCIe/USB	+		+	+	7260.HMWG	7260.NGWG
Intel® Centrino® Wireless-N 2230	Q2'13	Single	PCIe Half Mini Card	300 Mbps	Yes	PCIe	+		+		2230BN.HMWG	
Intel® Centrino® Wireless-N 2200	Q2'12	Single	PCIe Half Mini Card	300 Mbps	No	PCIe	+		+			
Intel® Centrino® Wireless-N 135	Q2'12	Single	PCIe Half Mini Card	150 Mbps	Yes	PCIe					135BN.HMWG	
Intel® Centrino® Wireless-N 130	Q1'11	Single	PCIe Half Mini Card	150 Mbps	Yes	PCIe					130BN.HMWG	
Intel® Centrino® Wireless-N 105	Q2'13	Single	PCIe Half Mini Card	150 Mbps	No	PCIe					105BN.HMWG	
Intel® Centrino® Wireless-N 1030	Q1'11	Single	PCIe Half Mini Card	150 Mbps TX/300 Mbps RX	Yes	PCIe	+				11230BN.HMWG	
Intel® Centrino® Wireless-N 1000	Q1'11	Single	PCIe Half Mini Card	300 Mbps	No	PCIe	+				112BN.HMWG	
Intel® Centrino® Wireless-N 100	Q1'11	Single	PCIe Half Mini Card	150 Mbps	No	PCIe					100BN.HMWEBC	
Intel® Centrino® Ultimate-N 6300	Q1'11	Dual	PCIe Half Mini Card	450 Mbps	No	PCIe	+		+		633AN.HMWG	
Intel® Centrino® Advanced-N 6235	Q3'12	Dual	PCIe Half Mini Card, PCIe M.2	300 Mbps	Yes	PCIe	+		+	+	6235AN.HMWG	
Intel® Centrino® Advanced-N 6230	Q1'11	Dual	PCIe Half Mini Card	300 Mbps	Yes	PCIe	+		+		62230AN.HMWG	
Intel® Centrino® Advanced-N 6205	Q1'11	Dual	PCIe Half Mini Card	300 Mbps	No	PCIe	+		+		62205AN.HMWG	
Intel® Centrino® Advanced-N 6200	Q1'11	Dual	PCIe Half Mini Card	300 Mbps	No	PCIe	+		+		622AN.HMWG	
INTEL® CENTRINO® WIMAX												
Centrino® Wireless-N + WiMAX 6150	Q2'11	Single	PCIe Half MiniCard	150 Mbps Tx/300 Mbps Rx	No	PCIe	+	+				
Centrino® Advanced-N + WiMAX 6250	Q2'11	Dual	PCIe Half MiniCard	300 Mbps	No	PCIe	+	+	+		622ANXHMWG	

Intel® Desktop Processors

Intel® Pentium® Desktop & Atom™ Desktop

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Lithography	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	Max CPU	HT	VT-x	EPT	TXT	64	IS	EIST	TMT	Fast	Flex	XDB	Socket	OEM Tray Part #	Retail Boxed Part #	Chipsets
INTEL® PENTIUM®																												
J2850	Bay Trail	Roadmap	4 / 4	2.41 GHz	2 MB			10 W	No	Yes	2	4			+			+							tba			
G3430	Haswell	Q3'13	2 / 2	3.30 GHz	3 MB	5 GT/s DMI	22 nm	54 W	No	Yes	3	16	1		+	+		+	+	+	+			+	FCLGA1150	CM8064601482518	BX80646G3430	B85, H87, Q87, Z87
G3420T	Haswell	Q3'13	2 / 2	2.70 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	1		+	+		+	+	+	+			+	FCLGA1150	CM8064601483712		
G3420	Haswell	Q3'13	2 / 2	3.20 GHz	3 MB	5 GT/s DMI	22 nm	54 W	Yes	Yes	3	16	1		+	+		+	+	+	+			+	FCLGA1150	CM8064601482522	BX80646G3420	H81
G3220T	Haswell	Q3'13	2 / 2	2.60 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	1		+	+		+	+	+	+			+	FCLGA1150	CM8064601483713		
G3220	Haswell	Q3'13	2 / 2	3.00 GHz	3 MB	5 GT/s DMI	22 nm	54 W	No	Yes	3	16	1		+	+		+	+	+	+			+	FCLGA1150	CM8064601482519	BX80646G3220	B85, H87, Q87, Z87
G2140	Ivy Bridge	Q2'13	2 / 2	3.30 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701391100	BX80637G2140	B75, H61, H77, Q75, Q77, Z75, Z77
G2130	Ivy Bridge	Q1'13	2 / 2	3.20 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701391200	BX80637G2130	B75, H61, H77, Q75, Q77, Z75, Z77
G2120T	Ivy Bridge	Q1'13	2 / 2	2.70 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701391600		B75, H61, H77, Q75, Q77, Z75, Z77
G2120	Ivy Bridge	Q1'13	2 / 2	3.10 GHz	3 MB	5 GT/s DMI	22 nm	55 W	Yes	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701095801	BX80637G2120	B75, H61, H77, Q75, Q77, Z75, Z77
G2100T	Ivy Bridge	Q3'12	2 / 2	2.60 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	4	1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8063701219000		B75, H61, H77, Q75, Q77, Z75, Z77
T2030T	Ivy Bridge	Q2'13	2 / 2	2.60 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701450500		B75, H61, H77, Q75, Q77, Z75, Z77
T2030	Ivy Bridge	Q2'13	2 / 2	3.00 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701450000	BX80637G2030	B75, H61, H77, Q75, Q77, Z75, Z77
G2020T	Ivy Bridge	Q1'13	2 / 2	2.50 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701444601		B75, H61, H77, Q75, Q77, Z75, Z77
G2020	Ivy Bridge	Q1'13	2 / 2	2.90 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701444700	BX80637G2020	B75, H61, H77, Q75, Q77, Z75, Z77
G2010	Ivy Bridge	Q1'13	2 / 2	2.80 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	4	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701444800	BX80637G2010	B75, H61, H77, Q75, Q77, Z75, Z77
G870	Sandy Bridge	Q2'12	2 / 2	3.10 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2	16	1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062307260115		B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G860T	Sandy Bridge	Q2'12	2 / 2	2.60 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301198300		B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G860	Sandy Bridge	Q3'11	2 / 2	3.00 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062307260237	BX80623G860	B65, H61, H67, P67, Q65, Q67, Z68
G850	Sandy Bridge	Q2'11	2 / 2	2.90 GHz	3 MB	5 GT/s DMI	32 nm	65 W	Yes	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062301046204	BX80623G850	B65, B75, H61, Q67, Q77, C206, C216
G6960	Clarkdale	Q1'11	2 / 2	2.93 GHz	3 MB	2.5 GT/s DMI	32 nm	73 W	No	Yes	2	16	1		+			+	+	+				+	FCLGA1156	CM80616005373AA		H55, H57, P55, Q57
G645T	Sandy Bridge	Q3'12	2 / 2	2.50 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301263701		B65,B75, H61, H77, P67, Q65, Q67, Q75, Z68, Z75, Z77
G645	Sandy Bridge	Q3'12	2 / 2	2.90 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301262601	BX80623G645	B65, H61, H67, P67, Q65, Q67, Z68, H77, Z75, Z77, B75, Q75
G640T	Sandy Bridge	Q2'12	2 / 2	2.40 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301002204		B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G640	Sandy Bridge	Q2'12	2 / 2	2.80 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062307260314		B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G630T	Sandy Bridge	Q3'11	2 / 2	2.30 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062301046604	BX80623G630T	B65, H61, H67, P67, Q65, Q67, Z68
G630	Sandy Bridge	Q3'11	2 / 2	2.70 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062301046404	BX80623G630	B65, H61, H67, P67, Q65, Q67, Z68
G622	Sandy Bridge	Q2'11	2 / 2	2.60 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155		BX80623G622	B65, H61, H67, P67, Q65, Q67, Z68
G620	Sandy Bridge	Q2'11	2 / 2	2.60 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062301046304	BX80623G620	B65, H61, H67, P67, Q65, Q67, Z68
E6500	Wolfdale	Q1'08	2 / 2	2.93 GHz	2 MB	1066 MHz FSB	45 nm	65 W	Yes	No			1		+			+	+	+	+			+	LGA775	AT80571PH0772ML		G31, G33, G35, G41, G43, G45, P31, P35, P43, P45, Q33, Q35, Q43, Q45, X38, X48
E5300	Wolfdale	Q1'08	2 / 2	2.60 GHz	2 MB	800 MHz FSB	45 nm	65 W	Yes	No			1					+	+	+	+			+	LGA775	AT80571PG0642M		G31, G33, G35, G41, G43, G45, P31, P35, P43, P45, Q33, Q35, Q43, Q45, X38, X48
INTEL® ATOM™																												
D525	Pineview	Q2'10	2 / 4	1.80 GHz	1 MB	2.5 GT/s DMI	45 nm	13 W	Yes	Yes								+						+	FCBGA559	AU80610006225AA		NM10
D510	Pineview	Q1'10	2 / 4	1.66 GHz	1 MB	2.5 GT/s DMI	45 nm	13 W	Yes	Yes								+						+	FCBGA559	AU80610004392AA		NM10
D425	Pineview	Q2'10	1 / 2	1.80 GHz	512 KB	2.5 GT/s DMI	45 nm	10 W	Yes	Yes								+						+	FCBGA559	AU80610006252AA		NM10
D410	Pineview	Q1'10	1 / 2	1.66 GHz	512 KB	2.5 GT/s DMI	45 nm	10 W	Yes	Yes								+						+	FCBGA559	AU80610004671AA		NM10
D2500	Cedarview	Q3'11	2 / 2	1.86 GHz	1 MB	2.5 GT/s DMI	32 nm	10 W	No	Yes	2	4						+						+	FCBGA559	DF8064101055400		NM10
D2550	Cedarview	Q1'12	2 / 4	1.86 GHz	1 MB	2.5 GT/s DMI	32 nm	10 W	No	Yes	2	4		+				+							FCBGA559	DF8064101211300		NM10

Intel® Desktop Processors

Intel® Celeron®, Core™ 2 Duo & Quad Desktop

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	Max CPU	HT	VT-x	EPT	TXT	64	IS	EIST	TMT	Fast	Flex	XDB	Socket	OEM Tray Part #	Retail Boxed Part #	Chipsets
INTEL® CELERON®																												
J1850	Bay Trail	Roadmap	4 / 4	2.00 GHz	2 MB			10 W	No	Yes	2	4			+			+								FH8065301455200		
J1750	Bay Trail	Roadmap	2 / 2	2.41 GHz	2 MB			10 W	No	Yes	2	4			+			+								TBD		
G555	Sandy Bridge	Q3'12	2 / 2	2.70 GHz	2 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301263601	BX80623G555	B65, H61, H67, P67, Q65, Q67, Z68, H77, Z75, Z77, B75
G550T	Sandy Bridge	Q3'12	2 / 2	2.20 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301002309		B65, H61, H67, P67, Q65, Q67, Z68, H77, Z75, Z77, B75
G550	Sandy Bridge	Q2'12	2 / 2	2.60 GHz	2 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062307261218	BX80623G550	B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G540T	Sandy Bridge	Q2'12	2 / 2	2.10 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1		+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301047004		B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G540	Sandy Bridge	Q3'11	2 / 2	2.50 GHz	2 MB	5 GT/s DMI	32 nm	65 W	Yes	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062301046804	BX80623G540	B65, B75, C206, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G530T	Sandy Bridge	Q3'11	2 / 2	2.00 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062301046904		B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G530	Sandy Bridge	Q3'11	2 / 2	2.40 GHz	2 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2		1		+			+	+	+	+	+	+	+	FCLGA1155	CM8062301046704	BX80623G530	B65, H61, H67, P67, Q65, Q67, Z68
G465	Sandy Bridge	Q3'12	1 / 2	1.90 GHz	1.5 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1	+	+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301264500	BX80623G465	B65, H61, H67, P67, Q65, Q67, Z68, H77, Z75, Z77, B75
G470	Sandy Bridge	Q2'13	1 / 2	2.00 GHz	1.5 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1	+	+	+		+	+	+	+	+	+	+	FCLGA1155	CM8062301264401		B65, B75, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
G460	Sandy Bridge	Q4'11	1 / 2	1.80 GHz	1.5 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2		1	+	+			+	+	+	+	+	+	+	FCLGA1155	CM8062301088702	BX80623G460	B65, H61, H67, P67, Q65, Q67, Z68
G1630	Sandy Bridge	Q3'13	2 / 2	2.80 GHz	2 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	6	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701444901	BX80637G1610	B75, H61, H67, H77, P67, Q77, Z68, Z75, Z77
G1620T	Sandy Bridge	Q3'13	2 / 2	2.40 GHz	2 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	6	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701448300		B75, H61, H67, H77, P67, Q77, Z68, Z75, Z77
G1620	Ivy Bridge	Q1'13	2 / 2	2.70 GHz	2 MB	5 GT/s DMI	22 nm	55 W	Yes	Yes	3	6	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701445001	BX80637G1620	B75, H61, H67, H77, P67, Q77, Z68, Z75, Z77
G1610T	Ivy Bridge	Q1'13	2 / 2	2.30 GHz	2 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	6	1		+	+		+	+	+	+			+	FCLGA1155	CM8063701445100		B75, H61, H67, H77, P67, Q77, Z68, Z75, Z77
G1610	Ivy Bridge	Q1'13	2 / 2	2.60 GHz	2 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	6	1		+			+	+	+	+			+	FCLGA1155	CM8063701444901	BX80637G1610	B75, H61, H67, H77, P67, Q77, Z68, Z75, Z77
P1053	Jasper Forest	Q1'10	1 / 2	1.33 GHz	2 MB	2.5 GT/s DMI	45 nm	30 W	Yes	No			1	+	+				+	+				+	FCLGA1366	AT80612004743AA		3420
E1500	Conroe	Q3'06	2 / 2	2.20 GHz	512 KB	800 MHz FSB	65 nm	65 W	Yes	No								+	+	+	+			+	LGA775	HH80557PG049D		945G, 945GC, 945GZ, 945P, 945PL, 946GZ, 946PL, 975X, G31, G33, G35, G41, G43, G45, G965, P31, P35, P45, P965, Q33, Q35, Q43, Q45, Q963, Q965, X38, X48
440	Conroe	Q3'06	1 / 1	2.00 GHz	512 KB	800 MHz FSB	65 nm	35 W	Yes	No								+			+			+	LGA775	HH80557RG041512	BX80557440	3000, 3010, 3210, 945G, 945GC, 945GZ, 945P, 945PL, 946GZ, 945PL, G31, G33, G35, G41, G43, G45, G965, P31, P35, P43, P45, P965, Q33, Q35, Q43, Q45, Q963, Q965
INTEL® CORE™2 DUO																												
E8400	Wolfdale	Q1'08	2 / 2	3.00 GHz	6 MB	1333 MHz FSB	45 nm	65 W	Yes	No					+			+	+	+	+			+	LGA775	AT80570PJ0806M		3210, G31, G33, G35, G41, G43, G45, P31, P35, P43, P45, Q33, Q35, Q43, Q45, X38, X48
E7400	Wolfdale	Q1'08	2 / 2	2.80 GHz	3 MB	1066 MHz FSB	45 nm	65 W	Yes	No								+	+	+	+			+	LGA775	AT80571PH0723ML		G31, G33, G35, G41, G43, G45, P31, P35, P43, P45, Q33, Q35, Q43, Q45, X38, X48
E6400	Conroe	Q3'06	2 / 2	2.13 GHz	2 MB	1066 MHz FSB	65 nm	65 W	Yes						+			+	+	+	+			+	LGA775	HH80557PH0462M		3000, 3010, 945G, 945GZ, 945P, 945PL, 946GZ, 946PL, G31, G33, G41, G43, G45, G965, P31, P35, P43, P45, P965, Q33, Q35, Q43, Q45, Q963, Q965, X38, X48
E4300	Conroe	Q3'06	2 / 2	1.80 GHz	2 MB	800 MHz FSB	65 nm	65 W	Yes									+	+	+	+			+	LGA775	HH80557PG0332M		3000, 3010, 945G, 945GZ, 945P, 945PL, 946GZ, 946PL, G31, G33, G41, G43, G45, G965, P31, P35, P43, P45, P965, Q33, Q35, Q43, Q45, Q963, Q965, X38, X48
INTEL® CORE™2 QUAD																												
Q9400	Yorkfield	Q3'08	4 / 4	2.66 GHz	6 MB	1333 MHz FSB	45 nm	95 W	Yes	No					+			+	+	+	+			+	LGA775	AT80580PJ0676M	BX80580Q9400	3210, G33, G35, G41, G43, G45, P35, P43, P45, Q33, Q35, Q43, Q45, X38, X48

Intel® Desktop Processors

Intel® Core™ i3 & i5 Desktop

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Lithography	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	Max CPU	Turbo	V-Pro	HT	VT-x	VT-d	EPT	TXT	AES	64	Anti	WiFi	4G	IS	EIST	TMT	Fast	Flex	XDB	Socket	OEM Tray Part #	Retail Boxed Part #	Chipsets
INTEL® CORE™ i3																																			
i3-4340	Haswell	Q3'13	2 / 4	3.60 GHz	4 MB	5 GT/s DMI	22 nm	54 W	No	Yes	3	16	1			+	+		+		+	+				+	+	+			+	FCLGA1150	CM8064601482422	BX80646I34340	B85, H81, H87, Q85, Q87, Z87
i3-4330T	Haswell	Q3'13	2 / 4	3.00 GHz	4 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	1			+	+		+		+	+				+	+	+			+	FCLGA1150	CM8064601481930		B85, H81, H87, Q85, Q87, Z87
i3-4330	Haswell	Q3'13	2 / 4	3.50 GHz	4 MB	5 GT/s DMI	22 nm	54 W	Yes	Yes						+	+				+	+					+				+	FCLGA1150	CM8064601482423	BX80646I34330	B85, H81, H87, Q85, Q87, Z87
i3-4130T	Haswell	Q3'13	2 / 4	2.90 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	1			+	+		+		+	+				+	+	+			+	FCLGA1150	CM8064601483515	BX80646I34130T	B85, H81, H87, Q85, Q87, Z87
i3-4130	Haswell	Q3'13	2 / 4	3.40 GHz	3 MB	5 GT/s DMI	22 nm	54 W	No	Yes	3	16	1			+	+		+		+	+				+	+	+			+	FCLGA1150	CM8064601483615	BX80646I34130	B85, H81, H87, Q85, Q87, Z87
i3-3250T	Ivy Bridge	Q2'13	2 / 4	3.00 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3		1			+	+		+			+	+	+		+	+	+			+	FCLGA1155	CM8063701391800		B75, H61, H77, Q75, Q77, Z75, Z77
i3-3250	Ivy Bridge	Q2'13	2 / 4	3.50 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3		1			+	+		+			+	+	+		+	+	+			+	FCLGA1155	CM8063701392200		B75, H61, H77, Q75, Q77, Z75, Z77
i3-3245	Ivy Bridge	Q2'13	2 / 4	3.40 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3		1			+	+		+			+	+	+		+	+	+			+	FCLGA1155	CM8063701391700		B75, H61, H77, Q75, Q77, Z75, Z77
i3-3240T	Ivy Bridge	Q3'12	2 / 4	2.90 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	No	3		1			+	+		+			+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701194400		B75, H61, H77, Q75, Q77, Z75, Z77
i3-3240	Ivy Bridge	Q3'12	2 / 4	3.40 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3		1			+	+		+			+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701137900	BX80637I33240	B75, H61, H77, Q75, Q77, Z75, Z77
i3-3225	Ivy Bridge	Q3'12	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3		1			+	+		+			+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701133903	BX80637I33225	B75, H61, H77, Q75, Q77, Z75, Z77
i3-3220T	Ivy Bridge	Q3'12	2 / 4	2.80 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3		1			+	+		+			+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701099500	BX80637I33220T	B75, H61, H77, Q75, Q77, Z75, Z77
i3-3220	Ivy Bridge	Q3'12	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	22 nm	55 W	Yes	Yes	3		1			+	+		+			+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701137502	BX80637I33220	B75, H61, H77, Q75, Q77, Z75, Z77
i3-3210	Ivy Bridge	Q1'13	2 / 4	3.20 GHz	3 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3		1			+	+		+			+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701392300	BX80637I33210	B75, H61, H77, Q75, Q77, Z75, Z77
i3-2130	Sandy Bridge	Q3'11	2 / 4	3.40 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2	16	1			+	+					+				+	+	+	+	+	+	FCLGA1155	CM8062301043904	BX80623I32130	B65, B75, H61, H67, H77, P67, Q65, Q67, Q75, Q77, Z68, Z75, Z77
i3-2125	Sandy Bridge	Q3'11	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2	16	1			+	+					+				+	+	+	+	+	+	FCLGA1155	CM8062301090500	BX80623I32125	B65, B75, H61, H67, H77, P67, Q65, Q67, Q75, Q77, Z68, Z75, Z77
i3-2120T	Sandy Bridge	Q3'11	2 / 4	2.60 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	1			+	+					+				+	+	+	+	+	+	FCLGA1155	CM8062301046008	BX80623I32120T	B65, B75, H61, H67, H77, P67, Q65, Q67, Q75, Q77, Z68, Z75, Z77
i3-2120	Sandy Bridge	Q1'11	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	32 nm	65 W	Yes	Yes	2	16	1			+	+					+				+	+	+	+	+	+	FCLGA1155	CM8062301044204	BX80623I32120	B65, C206, H61, H67, P67, Q65, Q67, Z68
i3-2115C	Gladden	Q2'12	2 / 4	2.00 GHz	3 MB	5 GT/s DMI		25 W	Yes			16				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1284	AV8062701064700		B65, B75, H61, H67, H77, P67, Q65, Q67, Q75, Q77, Z68, Z75, Z77
i3-2102	Sandy Bridge	Q2'11	2 / 4	3.10 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2	16	1			+	+					+				+	+	+	+	+	+	FCLGA1155	CM8062301061702	BX80623I32102	B65, B75, H61, H67, H77, P67, Q65, Q67, Q75, Q77, Z68, Z75, Z77
i3-2100	Sandy Bridge	Q1'11	2 / 4	3.10 GHz	3 MB	5 GT/s DMI	32 nm	65 W	No	Yes	2	16	1			+	+					+				+	+	+	+	+	+	FCLGA1155	CM8062301061600		B65, B75, H61, H67, H77, P67, Q65, Q67, Q75, Q77, Z68, Z75, Z77
INTEL® CORE™ i5																																			
i5-4670T	Haswell	Q2'13	4 / 4	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	1	2.0	+		+	+	+	+	+	+			+	+	+			+	FCLGA1150	CM8064601466003		B85, H81, H87, Q85, Q87, Z87
i5-4670S	Haswell	Q2'13	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3	16	1	2.0	+		+	+	+	+	+	+			+	+	+			+	FCLGA1150	CM8064601465703		B85, H81, H87, Q85, Q87, Z87
i5-4670R	Crystal Well	Q2 '13	4 / 4	3.00 GHz	4 MB		22 nm	65 W	No	Yes	3	16	1	2.0			+	+	+		+		+	+	+	+	+	+			+	FCLGA1150	TBD		B85, H81, H87, Q85, Q87, Z87
i5-4670K	Haswell	Q2'13	4 / 4	3.40 GHz	6 MB	5 GT/s DMI	22 nm	84 W	No	Yes	3	16	1	2.0			+		+		+		+	+		+	+	+			+	FCLGA1150	CM8064601464506	BX80646I54670K	B85, H81, H87, Q85, Q87, Z87
i5-4670	Haswell	Q2'13	4 / 4	3.40 GHz	6 MB	5 GT/s DMI	22 nm	84 W	No	Yes	3	16	1	2.0	+		+	+	+	+	+	+	+	+		+	+	+			+	FCLGA1150	CM8064601464706	BX80646I54670	B85, H81, H87, Q85, Q87, Z87
i5-4570T	Haswell	Q2'13	2 / 4	2.90 GHz	4 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	1	2.0	+	+	+	+	+	+	+	+	+	+		+	+	+			+	FCLGA1150	CM8064601466203	BX80646I54570T	B85, H81, H87, Q85, Q87, Z87
i5-4570S	Haswell	Q2'13	4 / 4	2.90 GHz	6 MB	5 GT/s DMI	22 nm	65 W	Yes	Yes	3	16	1	2.0	+		+	+	+	+	+	+	+	+		+	+	+			+	FCLGA1150	CM8064601465605	BX80646I54570S	B85, H81, H87, Q85, Q87, Z87
i5-4570R	Crystal Well	Q2 '13	4 / 4	2.70 GHz	4 MB		22 nm	65 W	No	Yes	3	16	1	2.0			+	+	+		+		+	+	+	+	+	+			+	FCLGA1150	CL8064701508603		B85, H81, H87, Q85, Q87, Z87
i5-4570	Haswell	Q2'13	4 / 4	3.20 GHz	6 MB	5 GT/s DMI	22 nm	84 W	No	Yes	3	16	1	2.0	+		+	+	+	+	+	+	+	+		+	+	+			+	FCLGA1150	CM8064601464707	BX80646I54570	B85, H81, H87, Q85, Q87, Z87
i5-4440S	Haswell	Q3'13	4 / 4	2.80 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3	16	1	+			+		+				+				+				+	FCLGA1150	CM8064601465804	BX80646I54440S	H81, H87, Z87
i5-4440	Haswell	Q3'13	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	22 nm	84 W	No	Yes	3	16	1	+			+		+				+				+				+	FCLGA1150	CM8064601464800	BX80646I54440	H81, H87, Z87
i5-4430S	Haswell	Q2'13	4 / 4	2.70 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2.0			+	+	+		+		+	+		+	+	+			+	FCLGA1150	CM8064601465803		H81, H87, Z87
i5-4430	Haswell	Q2'13	4 / 4	3.00 GHz	6 MB	5 GT/s DMI	22 nm	84 W	No	Yes	3		1	2.0			+	+	+		+		+	+		+	+	+			+	FCLGA1150	CM8064601464802	BX80646I54430	H81, H87, Z87
i5-3570T	Ivy Bridge	Q2'12	4 / 4	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCGLA1155	CM8063701094903		B75, H61, H77, Q75, Q77, Z75, Z77
i5-3570S	Ivy Bridge	Q2'12	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCGLA1155	CM8063701093901		B75, H77, Q75, Q77, Z75, Z77
i5-3570K	Ivy Bridge	Q2'12	4 / 4	3.40 GHz	6 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2			+		+		+	+	+			+	+	+	+	+	+	FCGLA1155	CM8063701211800	BX80637I3570K	B75, H77, Q75, Q77, Z75, Z77
i5-3570	Ivy Bridge	Q2'12	4 / 4	3.40 GHz	6 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701093103	BX80637153570	B75, H77, Q75, Q77, Z75, Z77
i5-3550S	Ivy Bridge	Q2'12	4 / 4	3.00 GHz	6 MB	5 GT/s DMI	22 nm	65 W	Yes	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701095203		B75, H77, Q75, Q77, Z75, Z77
i5-3550	Ivy Bridge	Q2'12	4 / 4	3.30 GHz	6 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701093203	BX80637I53550	B75, H77, Q75, Q77, Z75, Z77
i5-3475S	Ivy Bridge	Q2'12	4 / 4	2.90 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701212000		B75, H77, Q75, Q77, Z75, Z77
i5-3470T	Ivy Bridge	Q2'12	2 / 4	2.90 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3		1	2	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701159502		B75, H61, H77, Q75, Q77, Z75, Z77
i5-3470S	Ivy Bridge	Q2'12	4 / 4	2.90 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701094000	BX80637I5370S	B75, H61, H77, Q75, Q77, Z75, Z77
i5-3470	Ivy Bridge	Q2'12	4 / 4	3.20 GHz	6 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2	+		+	+	+	+	+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701093302	BX80637I53470	B75, H61, H77, Q75, Q77, Z75, Z77
i5-3450S	Ivy Bridge	Q2'12	4 / 4	2.80 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2			+		+		+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701095104	BX80637I53450S	B75, H61, H77, Q75, Q77, Z75, Z77
i5-3450	Ivy Bridge	Q2'12	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2			+		+		+	+	+			+	+	+	+	+	+	FCLGA1155	CM8063701159406	BX80637I53450	B75, H61, H77, Q75, Q77, Z75, Z77
i5-3350P	Ivy Bridge	Q3'12	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	22 nm	69 W	No				1	2			+	+	+		+	+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701392600	BX80637I53350P	H61, H77, Z75, Z77
i5-3340S	Ivy Bridge	Q3'13	4 / 4	3.30 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2			+	+	+		+	+	+	+		+	+	+			+	FCLGA1155	CM8063701387400	BX80637I53340S	H61, H77, Z75, Z77
i5-3340	Ivy Bridge	Q3'13	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2			+	+	+		+	+	+	+		+	+	+			+	FCLGA1155	CM8063701399700	BX80637I53340	H61, H77, Z75, Z77
i5-3330S	Ivy Bridge	Q3'12	4 / 4	2.70 GHz	6 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2			+	+	+		+	+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701159802	BX80637I53330S	H61, H77, Z75, Z77
i5-3330	Ivy Bridge	Q3'12	4 / 4	3.00 GHz	6 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2			+	+	+		+	+	+	+		+	+	+	+	+	+	FCLGA1155	CM8063701134304	BX80637I53330	H61, H77, Z75, Z77
i5-2400	Sandy Bridge	Q1'11	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	32 nm	95 W	Yes	Yes	2	16	1	+			+	+		+	+	+				+	+	+	+	+	+	LGA1155	CM8062300834106		B65, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77
i5-2390T	Sandy Bridge	Q1'11	2 / 4	2.70 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	1	+		+	+	+		+	+	+				+	+	+	+	+	+	FCLGA1155	CM8062301002115		B65, H61, H67, H77, P67, Q65, Q67, Z68, Z75, Z77

Intel® Desktop Processors

Intel® Core™ i7 & i7 Extreme Desktop

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	Max CPU	Turbo	V-Pro	HT	VT-x	VT-d	EPT	TXT	AES	64	Anti	IS	EIST	TMT	Fast	Flex	XDB	Socket	OEM Tray Part #	Retail Boxed Part #	Chipsets
INTEL® CORE™ i7																																	
i7-4930K	Ivy Bridge	Q3'13	6 / 12	3.40 GHz	12 MB	QPI		130 W	No				1	+		+	+					+			+				+	FCLGA2011	CM8063301292702	BX80633I74930K	X79
i7-4820K	Ivy Bridge	Q3'13	4 / 8	3.70 GHz	10 MB	QPI		130 W	No				1	+		+	+					+			+				+	FCLGA2011	CM8063301292805	BX80633I74820K	X79
i7-4771	Haswell	Q3'13	4 / 8	3.50 GHz	8 MB	QPI	22 nm	84 W	No	Yes	3	16	1	+	+	+	+	+	+	+	+	+	+	+	+	+			+	FCLGA1150	CM8064601464302	BX80646I74771	B85, H81, H87, Q85, Q87, Z87
i7-4770T	Haswell	Q2'13	4 / 8	2.50 GHz	8 MB		22 nm	45 W	No	Yes	3	16	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+			+	FCLGA1150	CM8064601465902		B85, H81, H87, Q85, Q87, Z87
i7-4770S	Haswell	Q2'13	4 / 8	3.10 GHz	8 MB		22 nm	65 W	Yes	Yes	3	16	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+			+	FCLGA1150	CM8064601465504	BX80646I74770S	B85, H81, H87, Q85, Q87, Z87
i7-4770R	Crystal Well	Q2'13	4 / 8	3.20 GHz	6 MB		22 nm	65 W	No	Yes	3	16	1	2.0		+	+	+	+		+	+	+	+	+	+			+	FCLGA1150	CL8064701508001		B85, H81, H87, Q85, Q87, Z87
i7-4770K	Haswell	Q2'13	4 / 8	3.50 GHz	8 MB		22 nm	84 W	No	Yes	3	16	1	2.0		+	+		+		+	+	+	+	+	+			+	FCLGA1150	CM8064601464206	BX80646I74770K	B85, H81, H87, Q85, Q87, Z87
i7-4770	Haswell	Q2'13	4 / 8	3.40 GHz	8 MB		22 nm	84 W	No	Yes	3	16	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+			+	FCLGA1150	CM8064601464303	BX80646I74770	B85, H81, H87, Q85, Q87, Z87
i7-4765T	Haswell	Q2'13	4 / 8	2.00 GHz	8 MB		22 nm	35 W	No	Yes	3	16	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+			+	FCLGA1150	CM8064601466200		B85, H81, H87, Q85, Q87, Z87
i7-3770T	Ivy Bridge	Q2'12	4 / 8	2.50 GHz	8 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3		1	2.0		+	+		+		+	+	+	+	+	+	+	+	+	FCLGA1155	CM8063701212200		B75, H61, H67, H77, P67, Q75, Q77, Z68, Z75, Z77
i7-3770S	Ivy Bridge	Q2'12	4 / 8	3.10 GHz	8 MB	5 GT/s DMI	22 nm	65 W	No	Yes	3		1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCLGA1155	CM8063701211900	BX80637I73770S	B75, H61, H67, H77, P67, Q75, Q77, Z68, Z75, Z77
i7-3770K	Ivy Bridge	Q2'12	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	22 nm	77 W	No	Yes	3		1	2.0		+	+		+		+	+	+	+	+	+	+	+	+	FCLGA1155	CM8063701211700	BX80637I73770K	B75, H61, H67, H77, P67, Q75, Q77, Z68, Z75, Z77
i7-3770	Ivy Bridge	Q2'12	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	22 nm	77 W	Yes	Yes	3		1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCLGA1155	CM8063701211600	BX80637I73770	B75, H61, H67, H77, P67, Q75, Q77, Z68, Z75, Z77
i7-3930K	Sandy Bridge-E	Q4'11	6 / 12	3.20 GHz	12 MB	5 GT/s DMI	32 nm	130 W	No	No		40	1	2.0		+	+				+	+		+	+				+	FCLGA2011	CM8061901100802	BX80619I73930K	X79
i7-3820	Sandy Bridge-E	Q1'12	4 / 8	3.60 GHz	10 MB	5 GT/s DMI	32 nm	130 W	No	No		40	1	2.0		+	+	+			+	+			+	+			+	FCLGA2011	CM8061901049606	BX80619I73820	X79
i7-2600	Sandy Bridge	Q1'11	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	32 nm	95 W	Yes	Yes	2	16	1	+		+	+	+		+	+	+		+	+	+	+	+	+	LGA1155	CM8062300834302	BX80623I72600	B65,B75, H61, H67, H77, P67, Q65, Q67, Q75, Q77, Z68, Z75, Z77
INTEL® CORE™ i7 EXTREME																																	
i7-4960X	Ivy Bridge	Q3'13	6 / 12	3.60 GHz	15 MB	QPI		130 W	No				1	+		+	+					+			+				+	FCLGA2011	CM8063301292500	BX80633I74960X	X79
i7-3970X	Sandy Bridge-E	Q4'12	6 / 12	3.50 GHz	15 MB	5 GT/s DMI	32 nm	150 W	No	No		40	1	2.0	+	+			+			+		+	+	+			+	FCLGA2011	CM8061901281201	BX80619I73970X	X79
i7-3960X	Sandy Bridge-E	Q4'11	6 / 12	3.30 GHz	15 MB	5 GT/s DMI	32 nm	130 W	No	No		40	1	2.0		+	+		+		+	+		+	+	+			+	FCLGA2011	CM8061907184018	BX80619I73960X	X79

Intel® Desktop Motherboards

Model	Code Name	Release	Expected Discontinuance	Form Factor	Chip-set	Socket	Extended Life Pgm (XLP)	DDR3 Memory: Max Memory	DDR3 Memory: # of Channels	DDR3 Memory: Memory Type (DDR3-)	DDR3 Memory: # of DIMMs	Graphics Output: Integ Grphx	Graphics Output: VGA	Graphics Output: LVDS	Graphics Output: DVI-D	Graphics Output: DVI-I	Graphics Output: HDMI	Graphics Output: Display Port	Graphics Output: Dual Display	Graphics Output: Discrete Grphx	Retail Part #	10-Pak Part #	Expansion Options: PCI Support	Expansion Options: PCIe Gen2 x1	Expansion Options: PCIe Gen2 x4	Expansion Options: PCIe Gen2 x16	Expansion Options: PCIe Mini	I/O Specifications: USB 2.0 (b / i)	I/O Specifications: USB 3.0 (b / i)	I/O Specifications: # SATA	I/O Specifications: # SATA 6 GB/s	I/O Specifications: # eSATA	I/O Specifications: # Parallel	I/O Specifications: # Serial	I/O Specifications: Fire-wire	I/O Specifications: PS2	I/O Specifications: RAID (0,1,5,10)	I/O Specifications: Audio Channels (back / front)	I/O Specifications: Integrated LAN 10 / 100 / 1000
INTEL® DESKTOP MOTHERBOARDS (STANDARD - 12-16 MOS LIFECYCLE)																																								
DZ87KLT-75K		Q2'13		ATX	Z87	LGA1150	No	32 GB	2	1600/1333	4	+					+			+	BOXDZ87KLT75KPP		1	3		3	1	2 / 6	6 / 2	8	8				1 / 1	1	Yes	8 / 2	Yes
DH77KC	Knoll Creek	Q2'12	Dec-13	ATX	H77	LGA1155	No	32 GB	2	1600/1333/1066	4	+				+	+	+	+	+	BOXDH77KC	BLKDH77KC	3	1	1	1	1	4 / 6	2 / 2	5	2	1				1	Yes	8 / 2	Yes
DH77EB	Eb Lake	Q2'12	Dec-13	Micro-ATX	H77	LGA1155	No	32 GB	2	1600/1333/1066	4	+				+	+	+	+	+	BOXDH77EB	BLKDH77EB		3		1	1	4 / 6	2 / 2	5	2	1					Yes	8 / 2	Yes
DH61WW	Woodworth	Q1'11	Oct-13	Micro-ATX	H61	LGA1155	No	16 GB	2	1600/1333/1066	2		+							+	BOXDH61WWB3	BLKDH61WWB3	1	1		1		4 / 2		4			1			1		6-chan	Yes
DH61CR	Clems Cove	Q1'11	Oct-13	Micro-ATX	H61	LGA1155	No	16 GB	2	1600/1333/1066	2		+		+				+	+		BLKDH61CRB3	1	2		1		4 / 6		4			1			1		6-chan	Yes
DH61BF	Broadfield	Q4'12		Micro-ATX	H61	LGA1155		16 GB	2	1600	2		+		+				+	+	BOXDH61BF	BLKDH61BF		2		1		4 / 4		4						2		6-chan	Gig
DH61BE	Bear Point	Q1'11	Oct-13	Micro-ATX	H61	LGA1155	No	16 GB	2	1600/1333/1066	2		+		+				+	+		BLKDH61BEB3	1	2		1		2 / 8	2 / 0	6	2		1	1		1		7 / 1	Yes
DH61AGL	Apple Glenn Lite	Q3'12	Dec-13	Thin Mini-ITX	H61	LGA1155		16 GB	2	1600/1333/1066	2	+		+			+	+			BOXDH61AGLPP	BLKDH61AGL					1	4 / 6		2							2 / 2	Yes
D2550MUD2	Mount Union DVI2	Q3'12		Mini-ITX	NM10	BGA		4 GB	1	1066		+	+	+	+				+		BOXD2550MUD2	BLKD2550MUD2	1					7		2									Yes
D2500HN	Houlton Legacy	Q1'12		Mini-ITX	NM10	BGA	No	4 GB	1	1066/800	2	+	+									BLKD2500HN	1					4 / 4		2			1	2		1		2 / 2	Yes
DH87RL		Q2'13		Micro-ATX	H87	LGA1150	No	32 GB	2	1600	4	+				+	+	+	+	+	BOXDH87RLPP	BLKDH87RL		3		1	1	2 / 6	4 / 2	6	6						Yes	8 / 2	Yes
DH87MC		Q2'13		ATX	H87	LGA1150	No	32 GB	2	1600	4	+				+	+	+	+	+	BOXDH87MC	BLKDH87MC	3	2	1	1		4 / 6	2 / 2	6	6						Yes	8 / 2	Yes
DB85FL		Q2'13		Micro-ATX	B85	LGA1150	No	32 GB	2	1600/1333	4	+				+	+			+	BOXDB85FL	BLKDB85FL		2		1		4 / 4	2 / 2	6	4							6 / 2	Yes
DQ87PG		Q2'13		Micro-ATX	Q87	LGA1150	Yes	32 GB	2	1600/1333	4	+	+		+			+			BOXDQ87PGPP	BLKDQ87PG	2	1		1		2 / 6	4 / 2	6	6		1			1		6 / 2	Yes
INTEL® DESKTOP MOTHERBOARDS (XLP - 2 YEAR LIFECYCLE)																																								
DQ77MK	Moccasin Peak	Q2'12	Q2'14	Micro-ATX	Q77	LGA1155	Yes	32 GB	2	1600/1333	4	+			+	+		+	+	+	BOXDQ77MKPP	BLKDQ77MK	2	1	1		1	4 / 4	2 / 2	6	2	1			1 / 1		Yes	6 / 2	Yes
DQ77CP	Craterville Park	Q3'12	Q3'14	Micro ATX	Q77	LGA1155	Yes	32 GB	2	1600/1333	4	+	+		+					+	BOXDQ77CPPP	BLKDQ77CP	2	1				4 / 4	2 / 2	6	2	1	1			1	Yes	6 / 2	Yes
DH77DF	Dry Fork	Q2'12	Q2'14	Mini-ITX	H77	LGA1155	Yes	16 GB	2	1600/1333/1066	2	+				+	+	+	+	+	BOXDH77DF	BLKDH77DF				1		4 / 4	2 / 2	4	2	1					Yes	8 / 2	Yes
DB75EN	Elkhorn Creek	Q2'12	Q2'14	Micro-ATX	B75	LGA1155	No	32 GB	2	1600/1333	4		+		+					+	BOXDB75EN	BLKDB75EN	2	1		1		4 / 4	2 / 2	5	1	1	1			1		6 / 2	Yes
INTEL® DESKTOP MOTHERBOARDS (PLC - 3 YEAR LIFECYCLE)																																								
DQ77KB	Kearnens Bend	Q2'12		Thin Mini-ITX	Q77	LGA1155	Yes	16 GB	2	1600/1333	2	+					+	+	+	+	BOXDQ77KB	BLKDQ77KB			1		2	0 / 5	4 / 0	4	2						Yes	2 / 2	Yes
D2500CC	Canoe Creek	Q1'12		Mini-ITX	NM10	BGA	No	4 GB	1	1066/800	2	+	+	+		+			+			BLKD2500CC	1				1	4 / 3		2			1	4		1		6 / 2	Yes
DH61AGL	Apple Glen	Q3'12		Thin Mini-ITX	H61	LGA1155	No	16 GB	2	1600/1333/1066	2	+		+			+	+	+	+	BOXDH61AGL	BLKDH61AGL			1		2	2 / 8	2 / 0	2		1		1				8 / 2	Yes

Model	Code Name	Release	Product Lifecycle	Form Factor	Chip-set	Processor Included	Embedded Option	DDR3 Memory: Max Memory	DDR3 Memory: Memory Type (DDR3-)	DDR3 Memory: # of DIMMs	Graphics Output: Integ Grphx	Graphics Output: VGA	Graphics Output: DVI-I	Graphics Output: HDMI Thunderbolt	Graphics Output: Dual HDMI	Graphics Output: Mini HDMI	Graphics Output: Display Port	Graphics Output: Dual Display	Single Boxed Part #	5-Pack Part #	10-Pack Part #	Expansion Options: PCIe Mini Card Half Length	Expansion Options: PCIe Mini Card Full Length	I/O Specifications: USB 2.0 (b / i)	I/O Specifications: USB 2.0 (b / i)	I/O Specifications: SATA Ports	I/O Specifications: SATA 6.0 Gb/s	I/O Specifications: Integrated LAN 10 / 100 / 1000	Advanced Tech: Anti-Theft	Advanced Tech: HD Audio
NEXT UNIT OF COMPUTING KIT / BOARD																													
DCCP847DY		Q1'13		UCFF - system	QS77	Celeron® 847	No	16 GB	1066/1333	2	+				+			+	BOXDCCP847DYPP	BOXDCCP847DYE		1	1	3 / 2				Yes		Yes
DC53427HY		Q2'13		UCFF - board	QS77	Core™ i3-3217U	No	16 GB	1333/1600	2	+			+				+	BOXDC53427HYPP	BOXDC53427HYE	BLKDC53427HYE	1	1	2 / 2	1			Yes	Yes	Yes
DC3217IY	Ice Canyon	Q4'12	3 years	UCFF - system	QS77	Core™ i3-3217U	No	16 GB	1333/1600	2	+				+			+	BOXDC3217IYPP	BOXDC3217IYE		1	1	3 / 2				Yes	Yes	Yes
DC3217BY	Box Canyon	Q4'12	18 mos	UCFF - system	QS77	Core™ i3-3217U	No	16 GB	1333/1600	2	+			+				+	BOXDC3217BYPP	BOXDC3217BY		1	1	3 / 2					Yes	Yes
D54250WYK		Roadmap		UCFF		Core™ i3-4250U	No	16 GB	1333/1600	2	+					+		+	BOXD54250WYKPP			1	1	0 / 2	2 / 2			Yes		Yes
D34010WYK		Roadmap		UCFF		Core™ i3-4010U	No	16 GB	1333/1600	2	+					+		+	BOXD34010WYKPP			1	1	0 / 2	2 / 2	1	1	Yes		Yes
DCP847SK	Ski Lake	Q1'13		UCFF - board	QS77	Celeron® 847	No	16 GB	1066/1333	2	+				+			+	BOXDCP847SKPP		BLKDCP847SKE	1	1	3 / 2				Yes		Yes
D54250WYB		Roadmap		UCFF		Core™ i3-4250U	No	16 GB	1066/1333	2	+					+		+	BOXD54250WYBPP			1	1	0 / 2	2 / 2	1	1	Yes		Yes
D53427RK		Q1'13		UCFF	QS77	Core™ i5-3427U	No	16 GB	1333/1600	2	+			+			+	+	BOXD53427RKPP		BLKD53427RKE	1	1	2 / 2	1			Yes	Yes	Yes
D34010WYB		Roadmap		UCFF		Core™ i3-4010U	No	16 GB	1333/1600	2	+					+		+	BOXD34010WYBPP			1	1	0 / 2	2 / 2	1	1	Yes		Yes
D33217GK	Golden Lake	Q4'12	3 years	UCFF - board	QS77	Core™ i3-3217U	No	16 GB	1066/1333	2	+				+			+			BLKD33217GKE	1	1	3 / 2				Yes	Yes	Yes
D33217CK	Campers Lake	Q4'12	18 mos	UCFF - board	QS77	Core™ i3-3217U	No	16 GB	1066/1333	2	+			+				+	BOXD33217CKPP		BLKD33217CK	1	1	3 / 2					Yes	Yes

**Intel Desktop Motherboard Business Update. Intel's Desktop Motherboard Business will build and sell ALL desktop motherboard products already in production through their normal life and sold through their normal warranty period (typically 3 years). Intel's Desktop Motherboard Business will not develop any new Intel branded desktop motherboards after completion of Haswell-based products launching in 2013. As Intel gradually ramps down its motherboard business they are ramping up a new focus on integrating innovative solutions for the PC ecosystems such as the recently announced Next Unit of Computing, as well as forging deeper partnerships with OEM and ODMs for the next generation of Ultrabooks™, All-in-One PCs and future innovative products. The Desktop segment continues to be a major focus for Intel with hundreds of products across many sub-segments and applications. Intel's Desktop Motherboard Business will continue to deliver its 2013 Haswell-based products, allowing its customers ample time to transition to other Intel based supplier solutions. Intel expects the broad and capable Desktop motherboard ecosystem to fully support Intel's growing roadmap and large worldwide customer base.

Intel® Desktop Chipset Compatibility Table

Chipset	B65, Q65	B75, Q75, Z75		B85, Q85	H61		H67, P67, Q67		H77, Q77, Z77		H81	H87, Q87, Z87	X79	Z68	
LAUNCH DATE	Q1'11	Q2'12		Q2'13	Q1'11		Q1'11		Q2'12		Q3'13	Q2'13	Q4'11	Q2'11	
CODE NAME	Cougar Point	Panther Point		Lynx Point	Cougar Point		Cougar Point		Panther Point		Lynx Point	Lynx Point	Patsburg	Cougar Point	
DESKTOP MOTHERBOARDS	DB65AL	DB75EN		DB85FL	DH61AG		DH67BL		DH77DF		All Boards EOL	DH87RL	DX79TO	All Boards EOL	
		DZ75ML-45K			DH61AGL		DH67CF		DH77EB			DH87MC	DX79SR		
					DH61BE		DH67CL		DH77KC			DQ87PG	DX79SI		
					DH61BF		DH67GD		DQ77MK			DZ87KLT-75K			
					DH61CR		DH67VR		DQ77KB						
					DH61DL		DP67BA		DQ77CP						
					DH61HO		DP67BG		DZ77BH-55K						
					DH61SKCH		DP67DE		DZ77GA-70K						
					DH61KVCH		DQ67EP		DZ77RE-75K						
					DH61SA		DQ67OW		DZ77SL-50K						
					DH61WW		DQ67SW								
					DH61ZE										
DESKTOP PROCESSORS	G440	G2010	i3-3220	i3-4130	G2010	i3-3220	G440	i5-2500S	G2010	i3-3220	i3-4130	i3-4130	i7-3960X	G440	i5-2500S
	G460	G2020	i3-3220T	i3-4130T	G2020	i3-3220T	G460	i5-2500T	G2020	i3-3220T	i3-4130T	i3-4130T	i7-3930K	G460	i5-2500T
	G470	G2020T	i3-3225	i3-4330	G2020T	i3-3225	G465	i5-2550K	G2020T	i3-3225	i3-4330	i3-4330	i7-3820	G465	i5-2550K
	G530	G2030	i3-3240	i3-4330T	G2030	i3-3240	G470	i7-2600	G2030	i3-3240	i3-4330T	i3-4330T	i7-3970X	G470	i7-2600
	G530T	G2030T	i3-3240T	i3-4330TE	G2030T	i3-3240T	G530	i7-2600K	G2030T	i3-3240T	i3-4330TE	i3-4330TE	i7-4960X	G530	i7-2600K
	G540	G2100T	i3-3245	i3-4340	G2100T	i3-3245	G530T	i7-2600S	G2100T	i3-3245	i3-4340	i3-4340	i7-4930K	G530T	i7-2600S
	G540T	G2120	i3-3250	i5-4570	G2120	i3-3250	G540	i7-3770	G2120	i3-3250	i5-4430	i5-4430	i7-4820K	G540	i7-3770
	G550	G2120T	i3-3250T	i5-4570R	G2120T	i3-3250T	G540T	i7-3770K	G2120T	i3-3250T	i5-4430S	i5-4430S		G540T	i7-3770K
	G550T	G2130	i5-2400	i5-4570S	G2130	i5-2300	G550	i7-3770S	G2130	i5-2300	i5-4440	i5-4440		G550	i7-3770S
	G555	G2140	i5-2400S	i5-4570T	G2140	i5-2310	G550T	i7-3770T	G2140	i5-2310	i5-4440S	i5-4440S		G550T	i7-3770T
	G620	G440	i5-2405S	i5-4570TE	G440	i5-2320	G555		G440	i5-2320	i5-4570	i5-4570		G555	
	G620T	G460	i5-2450P	i5-4670	G460	i5-2380P	G620		G460	i5-2380P	i5-4570R	i5-4570R		G620	
	G622	G465	i5-2500	i5-4670K	G465	i5-2390T	G620T		G465	i5-2390T	i5-4570S	i5-4570S		G620T	
	G630	G470	i5-2500K	i5-4670R	G470	i5-2400	G622		G470	i5-2400	i5-4570T	i5-4570T		G622	
	G630T	G530	i5-2500S	i5-4670S	G530	i5-2400S	G630		G530	i5-2400S	i5-4570TE	i5-4570TE		G630	
	G632	G530T	i5-2500T	i5-4670T	G530T	i5-2405S	G630T		G530T	i5-2405S	i5-4670	i5-4670		G630T	
	G640	G540	i5-2550K	i7-4765T	G540	i5-2450P	G632		G540	i5-2450P	i5-4670K	i5-4670K		G632	
	G640T	G540T	i5-3450	i7-4770	G540T	i5-2500	G640		G540T	i5-2500	i5-4670R	i5-4670R		G640	
	G645	G550	i5-3450S	i7-4770K	G550	i5-2500K	G640T		G550	i5-2500K	i5-4670S	i5-4670S		G640T	
	G645T	G550T	i5-3470	i7-4770R	G550T	i5-2500S	G645		G550T	i5-2500S	i5-4670T	i5-4670T		G645	
	G840	G555	i5-3470S	i7-4770S	G555	i5-2500T	G645T		G555	i5-2500T	i7-4765T	i7-4765T		G645T	
	G850	G620	i5-3470T	i7-4770T	G620	i5-2550K	G840		G620	i5-2550K	i7-4770	i7-4770		G840	
	G860	G620T	i5-3475S	i7-4770TE	G620T	i5-3330	G850		G620T	i5-3330	i7-4770K	i7-4770K		G850	
	G860T	G622	i5-3550	i7-4771	G622	i5-3330S	G860		G622	i5-3330S	i7-4770R	i7-4770R		G860	
	G870	G630	i5-3550S		G630	i5-3340	G860T		G630	i5-3340	i7-4770S	i7-4770S		G860T	
	i3-2100	G630T	i5-3570		G630T	i5-3340S	G870		G630T	i5-3340S	i7-4770T	i7-4770T		G870	
	i3-2100T	G632	i5-3570K		G632	i5-3350P	i3-2100		G632	i5-3350P	i7-4770TE	i7-4770TE		i3-2100	
	i3-2102	G640	i5-3570S		G640	i5-3450	i3-2100T		G640	i5-3450	i7-4771	i7-4771		i3-2100T	
	i3-2105	G640T	i5-3570T		G640T	i5-3450S	i3-2102		G640T	i5-3450S				i3-2102	
	i3-2115C	G645	i7-2600		G645	i5-3470	i3-2105		G645	i5-3470				i3-2105	
	i3-2120	G645T	i7-2600K		G645T	i5-3470S	i3-2115C		G645T	i5-3470S				i3-2115C	
	i3-2120T	G840	i7-2600S		G840	i5-3470T	i3-2120		G840	i5-3470T				i3-2120	
	i3-2125	G850	i7-3770		G850	i5-3475S	i3-2120T		G850	i5-3475S				i3-2120T	
	i3-2130	G860	i7-3770K		G860	i5-3550	i3-2125		G860	i5-3550				i3-2125	
	i5-2390T	G860T	i7-3770S		G860T	i5-3550S	i3-2130		G860T	i5-3550S				i3-2130	
	i5-2400	G870	i7-3770T		G870	i5-3570	i5-2300		G870	i5-3570				i5-2300	
	i5-2400S	i3-2100			i3-2100	i5-3570K	i5-2310		i3-2100	i5-3570K				i5-2310	
	i5-2405S	i3-2100T			i3-2100T	i5-3570S	i5-2320		i3-2100T	i5-3570S				i5-2320	
	i5-2450P	i3-2102			i3-2102	i5-3570T	i5-2380P		i3-2102	i5-3570T				i5-2380P	
	i5-2500	i3-2105			i3-2105	i7-2600	i5-2390T		i3-2105	i7-2600				i5-2390T	
	i5-2500K	i3-2115C			i3-2115C	i7-2600K	i5-2400		i3-2115C	i7-2600K				i5-2400	
	i5-2500S	i3-2120			i3-2120	i7-2600S	i5-2400S		i3-2120	i7-2600S				i5-2400S	
	i5-2500T	i3-2120T			i3-2120T	i7-3770	i5-2405S		i3-2120T	i7-3770				i5-2405S	
	i5-2550K	i3-2125			i3-2125	i7-3770K	i5-2450P		i3-2125	i7-3770K				i5-2450P	
	i7-2600	i3-2130			i3-2130	i7-3770S	i5-2500		i3-2130	i7-3770S				i5-2500	
	i7-2600K	i3-3210			i3-3210	i7-3770T	i5-2500K		i3-3210	i7-3770T				i5-2500K	

Intel® Mobile Processors

Intel® Core™ 2 Duo, Core™ 2 Quad & Pentium® Mobile Processors

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	HT	VT-x	64	WiFi	IS	EIST	TMT	Fast	Flex	XDB	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #	Boxed Part #	Chipsets
INTEL® CORE™2 DUO MOBILE PROCESSOR																											
U7500	Merom	Q3'06	2 / 2	1.06 GHz	2 MB	533 MHz FSB	65 nm	10 W	Yes				+		+			+				+	Socket P	LE80537UE0042M			GM965, GME965, PM965
T9400	Penryn	Q3'08	2 / 2	2.53 GHz	6 MB	1066 MHz FSB	45 nm	35 W	Yes				+	+	+		+					+	BGA479 / PGA478	AV80576GH0616M	AW80576GH0616M	BX80576T9400	5100, GM45, PM45
T7500	Merom	Q3'06	2 / 2	2.20 GHz	4 MB	800 MHz FSB	65 nm	35 W	Yes				+		+		+	+				+	PBGA479 / PPGA478	LE80537GG0494M	LE80537GG0494M		GME965
T7400	Merom	Q3'06	2 / 2	2.16 GHz	4 MB	667 MHz FSB	65 nm	34 W	Yes				+		+			+				+	PBGA479 / PPGA478	LE80537GF0484M	LF80537GF0484M		E7520, 945GM, 945GME, 945PM
SU9300	Penryn	Q3'08	2 / 2	1.20 GHz	3 MB	800 MHz FSB	45 nm	10 W	Yes				+	+	+			+				+	BGA956	AV80577UG0093M			3100, GS45
SP9300	Penryn	Q3'08	2 / 2	2.26 GHz	6 MB	1066 MHz FSB	45 nm	25 W	Yes				+	+	+			+				+	BGA956	AV80576SH0516M			GS45
SL9400	Penryn	Q3'08	2 / 2	1.86 GHz	6 MB	1066 MHz FSB	45 nm	17 W	Yes				+	+	+			+				+	BGA956	AV80576LH0366M			5100, GS45
SL9380	Penryn	Q3'08	2 / 2	1.80 GHz	6 MB	800 MHz FSB	45 nm	17 W	Yes				+	+	+			+				+	BGA956	AV80576LG0336M			GS45
P8700	Penryn	Q4'08	2 / 2	2.53 GHz	3 MB	1066 MHz FSB	45 nm	25 W	No				+	+	+		+	+				+	BGA479 / PGA478		AW80577SH0613MG		GM45, PM45
P8600	Penryn	Q3'08	2 / 2	2.40 GHz	3 MB	1066 MHz FSB	45 nm	25 W	No				+	+	+		+	+				+	BGA479 / PGA478	AV80577SH0563M	AW80577SH0563M	BX80577P8600	GM45, PM45
P8400	Penryn	Q3'08	2 / 2	2.26 GHz	3 MB	1066 MHz FSB	45 nm	25 W	Yes				+	+	+		+	+				+	BGA479 / PGA478	AV80577SH0513M	AW80577SH0513M		GM45, PM45
L7500	Merom	Q3'06	2 / 2	1.60 GHz	4 MB	800 MHz FSB	65 nm	17 W	Yes				+		+		+	+				+	PBGA479		LE80537LG0254M		
L7400	Merom	Q3'06	2 / 2	1.50 GHz	4 MB	667 MHz FSB	65 nm	17 W	Yes				+		+			+				+	PBGA479		LE80537LF0214M		3100, E7520, 945GM, 945GME, 945GMS, 945PM
INTEL® CORE™2 QUAD MOBILE PROCESSOR																											
Q9100	Penryn	Q3'08	4 / 4	2.26 GHz	12 MB	1066 MHz FSB	45 nm	45 W	No				+	+	+			+				+	PGA478		AW80581GH051003		GM45, PM45
Q9000	Penryn	Q1'09	4 / 4	2.00 GHz	6 MB	1066 MHz FSB	45 nm	45 W	No				+	+	+			+				+	PGA478		AW80581GH0416M		
INTEL® PENTIUM® MOBILE PROCESSOR																											
N3510	Bay Trail	Roadmap	4 / 4	2.00 GHz	2 MB		22 nm	7.5 W	No	Yes		4		+	+			+	+				+		TBD			
3560Y	Haswell	Q3'13	2 / 2	1.20 GHz	2 MB		22 nm	11.5 W	No	Yes	3	12		+	+			+	+	+			+		CL8064701486008			HM86, HM87
3556U	Haswell	Q3'13	2 / 2	1.70 GHz	2 MB		22 nm	15 W	No	Yes	3	10		+	+			+	+	+			+		CL8064701558100			HM86, HM87
3550M	Haswell	Q4'13	2 / 2	2.30 GHz	2 MB		22 nm	37 W	No	Yes	3	16		+	+				+	+			+			CW8064701486907		HM86, HM87
2129Y	Ivy Bridge	Q1'13	2 / 2	1.10 GHz	2 MB	5 GT/s DMI	22 nm	10 W	No	Yes	3	1		+	+			+	+	+	+	+	+	FCBGA1023	AV8063801377901			HM70, HM75, HM76, HM77, QS77, UM77
2127U	Ivy Bridge	Q3'13	2 / 2	1.90 GHz	2 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1		+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801119100			HM70, HM75, HM76, HM77, QS77, UM77
2117U	Ivy Bridge	Q3'12	2 / 2	1.80 GHz	2 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1		+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801058800			HM70, HM75, HM76, HM77, QS77, UM77
2030M	Ivy Bridge	Q1'13	2 / 2	2.50 GH	2 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1		+	+			+	+	+	+	+	+	FCPGA988		AW8063801120500		HM70, HM75, HM76, HM77
2020M	Ivy Bridge	Q3'12	2 / 2	2.40 GHz	2 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1		+	+	+		+	+	+	+	+	+	FCPGA988		AW8063801211202		HM70, HM75, HM76, HM77
B915C	Gladden	Q2'12	2 / 4	1.50 GHz	3 MB			15 W	Yes			20	+	+	+			+	+	+	+	+	+	FCBGA1284	AV8062701147401			
B980	Sandy Bridge	Q2'12	2 / 2	2.40 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	1			+			+	+	+	+	+	+	PGA988		FF8062700997802		
B970	Sandy Bridge	Q1'12	2 / 2	2.30 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	1			+			+	+	+	+	+	+	FCPGA988		FF8062700998002		
B960	Sandy Bridge	Q4'11	2 / 2	2.20 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	1			+			+	+	+	+	+	+	PGA988		FF8062700997701		
B950	Sandy Bridge	Q2'11	2 / 2	2.10 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	1			+			+	+	+	+	+	+	PGA988		FF8062700847901		HM65, HM67
997	Sandy Bridge	Q3'12	2 / 2	1.60 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	1		+	+			+	+	+	+	+	+	FCBGA1023	AV8062701084801			
987	Sandy Bridge	Q3'12	2 / 2	1.50 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	1			+			+	+	+	+	+	+	FCBGA1023	AV8062701147601			
977	Sandy Bridge	Q1'12	2 / 2	1.40 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	1			+			+	+	+	+	+	+	FCBGA1023	AV8062701147701			
967	Sandy Bridge	Q4'11	2 / 2	1.30 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	1			+			+	+	+	+	+	+	FCBGA1023	AV8062701147801			TBD
957	Sandy Bridge	Q2'11	2 / 2	1.20 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	1			+			+	+	+	+	+	+	FCBGA1023	AV8062700852600			HM65, HM67, QS67, UM67
T4400	Penryn	Q4'09	2 / 2	2.20 GHz	1 MB	800 MHz FSB	45 nm	35 W	No						+		+	+				+	Socket P		AW80577GG0491MA		

Intel® Mobile Processors

Intel® Atom™ Mobile, Smartphone & Tablet

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Max TDP	Litho-graphy	Embedded Option	Integrated Processor Graphics	# of Displays	HT	VT-x	64	IS	EIST	DBS	TMT	XDB	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #	Chipsets
INTEL® ATOM™ MOBILE PROCESSOR																							
Z530P	Silverthorne	Q2'08	1 / 2	1.60 GHz	512 KB	533 MHz FSB	2.2 W	45 nm	Yes			+	+		+	+	+	+	+	FCBGA437	CH80566EE025DW		US15WP
Z530	Silverthorne	Q2'08	1 / 2	1.60 GHz	512 KB	533 MHz FSB	2 W	45 nm	Yes			+	+		+	+	+	+	+	PBGA441		AC80566UE025DW	US15W, US15L
Z520PT	Silverthorne	Q2'08	1 / 2	1.33 GHz	512 KB	533 MHz FSB	2.2 W	45 nm	Yes			+	+		+	+	+	+	+	FCBGA437	CH80566EE014DT		US15WPT
Z510PT	Silverthorne	Q2'08	1 / 2	1.10 GHz	512 KB	400 MHz FSB	2.2 W	45 nm	Yes			+			+	+	+	+	+	FCBGA437	CH80566EC005DT		US15WPT
Z510P	Silverthorne	Q2'08	1 / 2	1.10 GHz	512 KB	400 MHz FSB	2.2 W	45 nm	Yes			+			+	+	+	+	+	FCBGA437	CH80566EC005DW		US15WP
Z510	Silverthorne	Q2'08	1 / 1	1.10 GHz	512 KB	400 MHz FSB	2 W	45 nm	Yes						+	+	+	+	+	FCBGA437		AC80566UC005DE	US15W
N2800	Cedarview	Q4'11	2 / 4	1.86 GHz	1 MB	2.5 GT/s DMI	6.5 W	32 nm	Yes	Yes		+		+		+		+	+	FCBGA559	DF8064101050503		
N2600	Cedarview	Q4'11	2 / 4	1.60 GHz	1 MB	2.5 GT/s DMI	3.5 W	32 nm	Yes	Yes		+		+		+		+	+	FCBGA559	DF8064101050706		
N455	Pineview	Q2'10	1 / 2	1.66 GHz	512 KB	2.5 GT/s DMI	6.5 W	45 nm	Yes	Yes		+		+		+		+	+	FCBGA559	AU80610006237AA		NM10
N450	Pineview	Q1'10	1 / 2	1.66 GHz	512 KB	2.5 GT/s DMI	5.5 W	45 nm	Yes	Yes		+		+		+		+	+	FCBGA559	AU80610004653AA		NM10
N270	Diamondville	Q2'08	1 / 2	1.60 GHz	512 KB	533 MHz FSB	2.5 W	45 nm	Yes			+				+		+	+	PGBGA437		AU80586GE025D	945GSE

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Memory Type	Max Memory	Litho-graphy	Embedded Option	Integrated Processor Graphics	Wireless Display	HT	VT-x	IS	EIST	TMT	HD Audio	Smartidle	Anti-Theft	Socket	Tray Part #	Tray & Reel Part #	Chipsets
INTEL® ATOM™ PROCESSOR FOR SMARTPHONE AND TABLET																							
Z3770D	Bay Trail	Q3'13	4 / 4	1.50 GHz	2 MB	DDR3L-RS 1333	2 GB	22 nm	No	Yes	Yes		+						+	UTFCBGA1380	FH8065301574800		
Z3770	Bay Trail	Q3'13	4 / 4	1.46 GHz	2 MB	LPDDR3-1066	4 GB	22 nm	No	Yes	Yes		+						+	UTFCBGA1380	FH8065301455604		
Z3740D	Bay Trail	Q3'13	4 / 4	1.33 GHz	2 MB	DDR3L-RS 1333	2 GB	22 nm	No	Yes	Yes		+						+	UTFCBGA1380	FH8065301574801		
Z3740	Bay Trail	Q3'13	4 / 4	1.33 GHz	2 MB	LPDDR3-1066	4 GB	22 nm	No	Yes			+						+	UTFCBGA1380	FH8065301455601		
Z2760	Cloverview	Q3'12	2 / 4	1.80 GHz	1 MB	LPDDR2-800	2 GB	32 nm	No	Yes		+								FC-MB4760	DG8065001313500	DG8065001313500	
Z2580	Cloverview	Q2'13	2 / 4	2.00 GHz	1 MB	LPDDR2-1066	2 GB	32 nm	No	Yes		+	+	+	+	+	+	+		FC-MB4760	DG8065101418902	DG8065101418901	
Z2560	Cloverview	Q2'13	2 / 4	1.60 GHz	1 MB	LPDDR2-1066	2 GB	32 nm	No	Yes		+	+	+	+	+	+	+			TBD		
Z2520	Cloverview	Roadmap	2 / 4	1.25 GHz	1 MB	LPDDR2-1066	2 GB	32 nm	No	Yes		+	+	+	+	+	+	+			TBD		

Intel® Mobile Processors

Intel® Celeron® Mobile Processor

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	HT	VT-x	EPT	64	IS	EIST	TMT	Fast	Flex	XDB	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #	Chipsets
INTEL® CELERON® MOBILE PROCESSOR																										
N2910	Bay Trail	Roadmap	4 / 4	1.60 GHz	2 MB		22 nm	7.5 W	No	Yes		4		+		+	+	+				+		TBD		
N2810	Bay Trail	Roadmap	2 / 2	2.00 GHz	1 MB		22 nm	7.5 W	No	Yes		4		+		+	+	+				+		TBD		
N2805	Bay Trail	Roadmap	2 / 2	1.46 GHz	1 MB		22 nm	4.3 W	No	Yes		4		+		+	+	+				+		TBD		
2980U	Haswell	Q3'13	2 / 2	1.60 GHz	2 MB		22 nm	15W	Yes	Yes	3	10		+	+	+	+	+	+			+		CL8064701479801		HM86, HM87, QM87
2955U	Haswell	Q3'13	2 / 2	1.40 GHz	2 MB		22 nm	15 W	No	Yes	3	10		+	+	+		+				+	FCBGA1168	CL8064701523900		HM86, HM87, QM87
2950M	Haswell	Q4'13	2 / 2	2.00 GHz	2 MB		22 nm	37 W	No	Yes	3	16		+	+	+		+	+			+			CW8064701487007	HM86, HM87, QM87
1047UE	Ivy Bridge	Q1'13	2 / 2	1.40 GHz	2 MB	5 GT/s DMI	22 nm	17 W	Yes	Yes	2	1		+		+		+	+	+	+		FCBGA1023	AV8063801116300		
1037U	Ivy Bridge	Q1'13	2 / 2	1.80 GHz	2 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1		+		+	+	+	+	+	+	+	FCBGA1023	AV8063801442900		HM70, HM75, HM76, HM77, QM77, QS77, UM77
1020M	Ivy Bridge	Q1'13	2 / 2	2.10 GHz	2 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1		+		+	+	+	+	+	+	+	FCPGA988	AV8063801276200	AW8063801443700	HM70, HM75, HM76, HM77, QM77
1020E	Ivy Bridge	Q1'13	2 / 2	2.20 GHz	2 MB	5 GT/s DMI	22 nm	17 W	Yes	Yes	3	1		+		+	+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801276200	AW8063801117700	
1019Y	Ivy Bridge	Q2'13	2 / 2	1.00 GHz	2 MB	5 GT/s DMI	22 nm	10 W	No	Yes	3	1		+	+		+	+	+	+	+	+	FCBGA1023	AV8063801443502		
1017U	Ivy Bridge	Q3'13	2 / 2	1.60 GHz	2 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1		+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801130300		
1007U	Ivy Bridge	Q1'13	2 / 2	1.50 GHz	2 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1		+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801118700		HM70, HM75, HM76, HM77, QM77, QS77, UM77
1005M	Ivy Bridge	Q3'13	2 / 2	1.90 GHz	2 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1		+	+	+	+	+	+	+	+	+	FCPGA988		AW8063801121200	
1000M	Ivy Bridge	Q1'13	2 / 2	1.80 GHz	2 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1		+	+	+	+	+	+	+	+	+	FCPGA988		AW8063801120200	HM70, HM75, HM76, HM77, QM77
U3405	Arrandale	Q1'10	2 / 2	1.06 GHz	2 MB	2.5 GT/s DMI	32 nm	18 W	Yes	Yes				+		+	+	+	+	+	+	+	BGA1288	CN80617006201AA		
U3400	Arrandale	Q2'10	2 / 2	1.06 GHz	2 MB	2.5 GT/s DMI	32 nm	18 W	No	Yes				+		+	+	+	+	+	+	+	BGA1288	CN80617006039AA		HM55, HM57, QM57, QS57
T3500	Penryn	Q3'10	2 / 2	2.10 GHz	1 MB	800 MHz FSB	45 nm	35 W	No														PGA478		AW80577GG0451ML	GL40, GM45
T3100	Penryn	Q3'08	2 / 2	1.90 GHz	1 MB	800 MHz FSB	45 nm	35 W	Yes	No						+						+	BGA479, PGA478	AV80577NG0371M	AW80577GG0371ML	GL40, GM45
SU2300	Penryn	Q3'09	2 / 2	1.20 GHz	1 MB	800 MHz FSB	45 nm	10 W	No	No				+		+		+	+				BGA956	AV850577UG0091ML		
P4600	Arrandale	Q3'10	2 / 2	2.00 GHz	2 MB	2.5 GT/s DMI	32 nm	35 W	No	Yes				+		+	+	+	+	+	+	+	PGA988		CP80617005307AB	HM55, HM57, QM57
P4505	Arrandale	Q1'10	2 / 2	1.86 GHz	2 MB	2.5 GT/s DMI	32 nm	35 W	Yes	Yes				+		+	+	+	+	+	+	+	BGA1288	CN80617004545AF		HM55, QM57
P4500	Arrandale	Q1'10	2 / 2	1.86 GHz	2 MB	2.5 GT/s DMI	32 nm	35 W	Yes	Yes				+		+	+	+	+	+	+	+	PGA988		CP80617004803AA	HM55, HM57, QM57
B840	Sandy Bridge	Q3'11	2 / 2	1.90 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16		+		+	+	+	+	+	+	+	PGA988		FF8062700998301	HM65, HM67, QM67
B830	Sandy Bridge	Q3'12	2 / 2	1.80 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16		+		+	+	+	+	+	+	+	FCPGA988 / PGA988		FF8062700848702	
B820	Sandy Bridge	Q3'12	2 / 2	1.70 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16		+		+	+	+	+	+	+	+	FCPGA988 / PGA988		FF8062700848602	
B815	Sandy Bridge	Q1'12	2 / 2	1.60 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16		+		+	+	+	+	+	+	+	FCPGA988 / PGA988		FF8062701159901	
B810E	Sandy Bridge	Q2'11	2 / 2	1.60 GHz	2 MB	5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16		+		+	+	+	+	+	+		FCBGA1023	AV8062700849802		HM65, QM67
B810	Sandy Bridge	Q1'11	2 / 2	1.60 GHz	2 MB	5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16		+		+	+	+	+	+	+	+	PGA988		FF8062700848800	HM65, QM67
B800	Sandy Bridge	Q2'11	2 / 2	1.50 GHz	2 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16		+		+	+	+	+	+	+	+	FCPGA988		FF8062701142600	HM65, HM67, QM67
B710	Sandy Bridge	Q3'11	1 / 1	1.60 GHz	1.5 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16		+		+	+	+	+	+	+	+	PGA988		FF8062701084201	HM65, QM67
927UE	Ivy Bridge	Q1'13	1 / 1	1.50 GHz	1 MB	5 GT/s DMI	22 nm	17 W	Yes	Yes	2	1		+		+		+	+	+	+		FCBGA1023	AV8063801129600		
900	Penryn	Q1'09	1 / 1	2.20 GHz	1 MB	800 MHz FSB	45 nm	35 W	No	No						+						+	PGA478		AW80585NG0491MA	GL40, GM45
887	Sandy Bridge	Q3'12	2 / 2	1.50 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16		+			+	+	+	+	+	+	FCBGA1023	AV8062701085401		
877	Sandy Bridge	Q2'12	2 / 2	1.40 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16		+			+	+	+	+	+	+	FCBGA1023	AV8062701085501		
857	Sandy Bridge	Q3'11	2 / 2	1.20 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16		+		+	+	+	+	+	+	+	FCBGA1023	AV8062701149001		HM65, HM67, QM67, QS67, UM67
847	Sandy Bridge	Q2'11	2 / 2	1.10 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16		+		+	+	+	+	+	+	+	FCBGA1023	AV8062700852800		HM65, HM67, QM67, QS67, UM67
847E	Sandy Bridge	Q2'11	2 / 2	1.10 GHz	2 MB	5 GT/s DMI	32 nm	17 W	Yes	Yes	2	16		+		+	+	+	+	+	+		FCBGA1023	AV8062700849902		HM65, QM67
827E	Sandy Bridge	Q3'11	1 / 1	1.40 GHz	1.5 MB	5 GT/s DMI	32 nm	17 W	Yes	Yes	2	16		+		+	+	+	+	+	+		FCBGA1023	AV8062701082300		HM65
807UE	Sandy Bridge	Q4'11	1 / 1	1.00 GHz	1 MB	5 GT/s DMI	32 nm	10 W	Yes	Yes	2	16		+		+	+	+	+	+	+		FCBGA1023	AV8062701188200		
807	Sandy Bridge	Q2'12	1 / 2	1.50 GHz	2 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	+	+		+	+	+	+	+	+	+	FCBGA1023	AV8062701079702		
787	Sandy Bridge	Q3'11	1 / 1	1.30 GHz	1.5 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16		+		+	+	+	+	+	+	+	FCBGA1023	AV8062701079501		HM65, HM67, QS67, UM67
725C	Gladden	Q2'12	1 / 2	1.30 GHz	1.5 MB			10 W	Yes		2	16	+	+		+	+	+	+	+	+	+	FCBGA1284	AV8062701147000		
ULV 573	Merom	Q3'06	1 / 1	1.00 GHz	512 KB	533 MHz FSB	65 nm	10 W	Yes	No						+							PBGA479	LE80537VE001512		GLE960
575	Merom	Q3'06	1 / 1	2.00 GHz	1 MB	667 MHz FSB	65 nm	31 W	Yes	No						+						+	PPGA478		LF80537NF0411M	GL40, GM45
550	Merom	Q3'06	1 / 1	2.00 GHz	1 MB	533 MHz FSB	65 nm	31 W	Yes	No						+						+	PBGA479, PPGA468	LE80537NE0411M	LF80537NE0411M	GL960, GLE960, GM965, GME965

Intel® Mobile Processors

Intel® Core™ i3 Mobile Processor

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	HT	VT-x	64	Anti	WiFi	4G	IS	EIST	TMT	Fast	Flex	XDB	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #	Chipsets
INTEL® CORE™ i3 MOBILE PROCESSOR SERIES																												
i3-4158U	Haswell	Q3'13	2 / 4	2.00 GHz	3 MB		22 nm	28 W	No	Yes	3	12	+	+	+				+	+	+			+	FCBGA1168	CL8064701526902		HM86, HM87, QM87
i3-4100U	Haswell	Q3'13	2 / 4	1.80 GHz	3 MB		22 nm	15 W	No	Yes	3	12	+	+	+				+	+	+			+	FCBGA1168	CL8064701476302		HM86, HM87, QM87
i3-4100M	Haswell	Q4'13	2 / 4	2.50 GHz	3 MB		22 nm	37 W	No	Yes	3	16		+	+	+			+	+	+			+	FCBGA1168		CW8064701486707	HM86, HM87, QM87
i3-4020Y	Haswell	Q3'13	2 / 4	1.50 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+				+	+	+			+	FCBGA1168	CL8064701512402		HM86, HM87, QM87
i3-4012Y	Haswell	Q3'13	2 / 4	1.50 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+				+	+	+			+	FCBGA1168	CL8064701573500		HM86, HM87, QM87
i3-4010Y	Haswell	Q3'13	2 / 4	1.30 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+				+	+	+			+	FCBGA1168	CL8064701512503		HM86, HM87, QM87
i3-4010U	Haswell	Q3'13	2 / 4	1.70 GHz	3 MB		22 nm	15 W	No	Yes	3	12	+	+	+				+	+	+			+	FCBGA1168	CL8064701478202		HM86, HM87, QM87
i3-4005U	Haswell	Q3'13	2 / 4	1.70 GHz	3 MB		22 nm	15 W	No	Yes	3	10	+	+	+				+	+	+			+	FCBGA1168	TBD		HM86, HM87, QM87
i3-4000M	Haswell	Q4'13	2 / 4	2.40 GHz	3 MB		22 nm	37 W	No	Yes	3	16	+	+	+				+	+	+			+	FCBGA1168	CW8064701486802		HM86, HM87, QM87
i3-3229Y	Ivy Bridge	Q1'13	2 / 4	1.40 GHz	3 MB	5 GT/s DMI	22 nm	13 W	No	Yes	2		+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801378000		HM75, HM76, HM77, QM77, QS77, UM77
i3-3227U	Ivy Bridge	Q1'13	2 / 4	1.90 GHz	3 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801119500		HM75, HM76, HM77, QM77, QS77, UM77
i3-3217UE	Ivy Bridge	Q3'12	2 / 4	1.60 GHz	3 MB	5 GT/s DMI	22 nm	17 W	Yes	Yes	3	1	+	+	+		+		+	+	+	+	+	+	FCBGA1023	AV8063801149500		HM65, QM67, QM77
i3-3217U	Ivy Bridge	Q2'12	2 / 4	1.80 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801058401		HM75, HM76, HM77, QM77, QS77, UM77
i3-3130M	Ivy Bridge	Q1'13	2 / 4	2.60 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801111900	AW8063801111500	HM75, HM76, HM77, QM77, QS77
i3-3120ME	Ivy Bridge	Q3'12	2 / 4	2.40 GHz	3 MB	5 GT/s DMI	22 nm	35 W	Yes	Yes	3	1	+	+	+				+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801117301	AW8063801117902	HM65, QM67, QM77
i3-3120M	Ivy Bridge	Q3'12	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	+	+	+				+	+	+	+	+	+	FCPGA988	AV8063801112300	AW8063801111700	HM75, HM76, HM77, QM77, QS77
i3-3115C	Gladden	Q3'13	2 / 4	2.50 GHz	4 MB	5 GT/s DMI	22 nm	25 W	Yes	Yes		20	+	+	+				+	+	+	+	+	+	FCBGA1284	CN8063801307703		
i3-3110M	Ivy Bridge	Q2'12	2 / 4	2.40 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801032800	AW8063801032700	HM75, HM76, HM77, QM77, QS77
i3-2377M	Sandy Bridge	Q2'12	2 / 4	1.5 GHz	3 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701048004		
i3-2375M	Sandy Bridge	Q1'13	2 / 4	1.5 GHz	3 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701313100		
i3-2370M	Sandy Bridge	Q1'12	2 / 4	2.40 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	PPGA988		FF8062700996006	
i3-2367M	Sandy Bridge	Q4'11	2 / 4	1.40 GHz	3 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701047904		
i3-2365M	Sandy Bridge	Q3'12	2 / 4	1.40 GHz	3 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701313000		
i3-2350M	Sandy Bridge	Q4'11	2 / 4	2.30 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8062700996106	FF8062700995906	HM65, HM67, QM67, QS67
i3-2348M	Sandy Bridge	Q1'13	2 / 4	2.30 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	PPGA988		FF8062701275200	
i3-2340UE	Sandy Bridge	Q2'11	2 / 4	1.30 GHz	3 MB	5 GT/s DMI	32 nm	17 W	Yes	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700849710		HM65, QM67
i3-2332M	Sandy Bridge	Q4'11	2 / 4	2.20 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	PPGA988		FF8062701084501	
i3-2330M	Sandy Bridge	Q2'11	2 / 4	2.20 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8062700846806	FF806270846606	HM65, HM67, QM67
i3-2330E	Sandy Bridge	Q2'11	2 / 4	2.20 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988		FF8062700849000	HM65, QM67
i3-2328M	Sandy Bridge	Q3'12	2 / 4	2.20 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	PPGA988		FF8062701275100	
i3-2312M	Sandy Bridge	Q2'11	2 / 4	2.10 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988		FF8062701084601	
i3-2310M	Sandy Bridge	Q1'11	2 / 4	2.10 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8062700999605	FF8062700999405	HM65, HM67, QM67, QS67
i3-2310E	Sandy Bridge	Q1'11	2 / 4	2.10 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700849116		HM65, QM67
i3-390M	Arrandale	Q1'11	2 / 4	2.66 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	BGA1288/PGA988		CP80617005487AB	
i3-370M	Arrandale	Q3'10	2 / 4	2.40 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	PGA988		CP80617004119AL	
i3-350M	Arrandale	Q1'10	2 / 4	2.26 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	PGA988		CP80617004161AI	
i3-330M	Arrandale	Q1'10	2 / 4	2.13 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	PGA988		CP80617004122AG	
i3-330E	Arrandale	Q1'10	2 / 4	2.13 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	BGA1288	CN80617004467AC		HM55, QM57

Intel® Mobile Processors

Intel® Core™ i5 Mobile & Intel® Core™ i7 Extreme Mobile

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	Turbo	vPro	HT	VT-x	VT-d	TXT	AES	64	Anti	WiFi	4G	IS	EIST	TMT	Fast	Flex	XDB	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #	Chipsets
INTEL® CORE™ i5 MOBILE PROCESSOR SERIES																																
i5-4350U	Haswell	Q3'13	2 / 4	1.40 GHz	3 MB		22 nm	15 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+				+	+	+			+	FCBGA1168	CL8064701463001		HM86, HM87
i5-4330M	Haswell	Q4'13	2 / 4	2.9 GHz	3 MB		22 nm	37 W	No	Yes	3	1	+	+	+	+	+	+	+					+	+	+			+			CW8064701486406	HM86, HM87
i5-4302Y	Haswell	Q3'13	2 / 4	1.60 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+	+	+	+	+	+				+	+	+			+		CL8064701564001		HM86, HM87
i5-4300Y	Haswell	Q3'13	2 / 4	1.60 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+	+	+	+	+	+				+	+	+			+		CL8064701558601		HM86, HM87
i5-4300M	Haswell	Q4'13	2 / 4	2.60 GHz	3 MB		22 nm	37 W	No	Yes	3	16	+	+	+	+	+	+	+	+				+	+	+			+			CW8064701486506	HM86, HM87
i5-4300U	Haswell	Q4'13	2 / 4	1.90 GHz	3 MB		22 nm	15 W	No	Yes	3	12	+	+	+	+	+	+	+	+				+	+	+			+		CL8064701477400		HM86, HM87
i5-4288U	Haswell	Q3'13	2 / 4	2.60 GHz	3 MB		22 nm	28 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+				+	+	+			+	FCBGA1168	CL8064701481403		HM86, HM87, QM87
i5-4258U	Haswell	Q3'13	2 / 4	2.40 GHz	3 MB		22 nm	28 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+				+	+	+			+	FCBGA1168	CL8064701481503		HM86, HM87, QM87
i5-4250U	Haswell	Q3'13	2 / 4	1.30 GHz	3 MB		22 nm	15 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+				+	+	+			+	FCBGA1168	CL8064701463101		HM86, HM87, QM87
i5-4210Y	Haswell	Q3'13	2 / 4	1.50 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+	+	+	+	+	+				+	+	+			+		CL8064701558501		HM86, HM87, QM87
i5-4202Y	Haswell	Q3'13	2 / 4	1.60 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+	+	+	+	+	+				+	+	+			+		CL8064701558401		HM86, HM87, QM87
i5-4200Y	Haswell	Q3'13	2 / 4	1.40 GHz	3 MB		22 nm	11.5 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+				+	+	+			+	FCBGA1168	CL8064701557900		HM86, HM87, QM87
i5-4200U	Haswell	Q3'13	2 / 4	1.60 GHz	3 MB		22 nm	15 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+				+	+	+			+	FCBGA1168	CL8064701477702		HM86, HM87, QM87
i5-4200M	Haswell	Q4'13	2 / 4	2.50 GHz	3 MB		22 nm	37 W	No	Yes	3	12	+	+	+	+	+	+	+	+				+	+	+			+			CW8064701486606	HM86, HM87, QM87
i5-4200H	Haswell	Q4'13	2 / 4	2.80 GHz	3 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+				+	+	+			+	FCBGA1364	CL8064701470601		HM86, HM87, QM87
i5-3610ME	Ivy Bridge	Q2'12	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	22 nm	35 W	Yes	Yes	3	1	2.0	+	+	+	+	+	+	+		+		+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8063801116102	AW8063801115901	HM65, QM67, QM77
i5-3439Y	Ivy Bridge	Q1'13	2 / 4	2.30 GHz	3 MB	5 GT/s DMI	22 nm	13 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801378103		
i5-3437U	Ivy Bridge	Q1'13	2 / 4	2.90 GHz	3 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801119300		
i5-3427U	Ivy Bridge	Q2'12	2 / 4	1.80 GHz	3 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801057801		
i5-3380M	Ivy Bridge	Q1'13	2 / 4	2.90 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801110100	AW8063801109500	
i5-3360M	Ivy Bridge	Q2'12	2 / 4	2.80 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8063801031102	AW8063801031002	
i5-3340M	Ivy Bridge	Q1'13	2 / 4	2.70 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801110700	AW8063801110300	
i5-3339Y	Ivy Bridge	Q1'13	2 / 4	1.50 GHz	3 MB	5 GT/s DMI	22 nm	7 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801433100		
i5-3337U	Ivy Bridge	Q1'13	2 / 4	1.80 GHz	3 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801129900		
i5-3320M	Ivy Bridge	Q2'12	2 / 4	2.60 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8063801031900	AW8063801031700	
i5-3317U	Ivy Bridge	Q2'12	2 / 4	1.70 GHz	3 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801058002		
i5-3230M	Ivy Bridge	Q2'12	2 / 4	2.60 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801110901		B75, H77, Q75, Z75, Z77
i5-3210M	Ivy Bridge	Q2'12	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8063801032502	AW8063801032301	B75, H77, Q75, Z75, Z77
i5-2557M	Sandy Bridge	Q2'11	2 / 4	1.70 GHz	3 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701047204		HM65, HM67, QM67, QS67, UM67
i5-2540M	Sandy Bridge	Q1'11	2 / 4	2.60 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8062700839411	FF8062700839209	HM65, HM67, QM67, QS67
i5-2537M	Sandy Bridge	Q1'11	2 / 4	1.40 GHz	3 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701047107		HM65, HM67, QM67, QS67, UM67
i5-2520M	Sandy Bridge	Q1'11	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	PPGA988		FF8062700840017	HM65, HM67, QM67, QS67
i5-2515E	Sandy Bridge	Q1'11	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	2.0	+	+	+	+	+	+	+				+	+	+	+	+		FCBGA1023	AV8062700853208		HM65, QM67
i5-2510E	Sandy Bridge	Q1'11	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	2.0	+	+	+	+	+	+	+				+	+	+	+	+		FCPGA988		FF8062700853304	HM65, QM67
i5-2467M	Sandy Bridge	Q2'11	2 / 4	1.60 GHz	3 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701047504		HM65, HM67, QM67, QS67, UM67
i5-2450M	Sandy Bridge	Q1'12	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	FCBGA1023		FF8062700995606	
i5-2435M	Sandy Bridge	Q4'11	2 / 4	2.4 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	PPGA988	AV8062700995706		
i5-2430M	Sandy Bridge	Q4'11	2 / 4	2.4 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	FCBGA1023		FF8062700995505	HM65, HM67, QM67
i5-2410M	Sandy Bridge	Q1'11	2 / 4	2.30 GHz	3 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0		+	+				+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988		FF8062700845205	HM65, HM67, QM67, QS67
i5-540M	Arrandale	Q1'10	2 / 4	2.53 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	No	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	BGA1288 / PGA988		CP80617004116AE	HM55, HM57, QM57, QS57
i5-520M	Arrandale	Q1'10	2 / 4	2.40 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	BGA1288 / PGA988		CP80617004119AE	HM55, HM57, PM55, QM57, QS57
i5-520E	Arrandale	Q1'10	2 / 4	2.40 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	Yes	Yes	2	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	BGA1288	CN80617004461AB		HM55, QM57
INTEL® CORE™ i7 MOBILE PROCESSOR EXTREME EDITION SERIES																																
i7-4930MX	Haswell	Q2'13	4 / 8	3.00 GHz	8 MB		22 nm	57 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCPGA946		CW8064701471101	HM86, HM87, QM87
i7-3940XM	Ivy Bridge	Q4'12	4 / 8	3.00 GHz	8 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988		AW8063801103501	HM77, QM77
i7-3920XM	Ivy Bridge	Q2'12	4 / 8	2.90 GHz	8 MB	5 GT/s DMI	22 nm	55 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988		AW8063801009607	HM77, QM77
i7-2960XM	Sandy Bridge	Q4'11	4 / 8	2.70 GHz	8 MB	5 GT/s DMI	32 nm	55 W	No	Yes	2	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988	FF8062700834603		HM67, QM67

Intel® Mobile Processors

Intel® Core™ i7 Mobile

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Lithography	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	Turbo	vPro	HT	VT-x	VT-d	TXT	AES	64	Anti	WiFi	4G	IS	EIST	TMT	Fast	Flex	XDB	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #	Boxed Part #	Chipsets
INTEL® CORE™ i7 MOBILE PROCESSOR SERIES																																	
i7-4960HQ	Crystal Well	Q4'13	4 / 8	2.60 GHz	6 MB		22 nm	47 W	No	Yes	3	16	+	+	+	+	+	+	+	+	+			+					+		TBD				HM86, HM87, QM87
i7-4950HQ	Crystal Well	Q3'13	4 / 8	2.40 GHz	6 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1364	CL8064701509700			HM86, HM87, QM87
i7-4900MQ	Haswell	Q2'13	4 / 8	2.80 GHz	8 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCPGA946	CW8064701470901		BX80647I74900MQ	HM86, HM87, QM87
i7-4850HQ	Crystal Well	Q3'13	4 / 8	2.30 GHz	6 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1364	CL8064701509800			HM86, HM87, QM87
i7-4800MQ	Haswell	Q3'13	4 / 8	2.70 GHz	6 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCPGA946	CW8064701471001		BX80647I74800MQ	HM86, HM87, QM87
i7-4750HQ	Crystal Well	Q3'13	4 / 8	2.00 GHz	6 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1364	CL8064701510101			HM86, HM87, QM87
i7-4702MQ	Haswell	Q2'13	4 / 8	2.20 GHz	6 MB		22 nm	37 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCPGA946	CW8064701470802			HM86, HM87, QM87
i7-4702HQ	Haswell	Q2'13	4 / 8	2.20 GHz	6 MB		22 nm	37 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1364	CL8064701470403			HM86, HM87, QM87
i7-4700MQ	Haswell	Q2'13	4 / 8	2.40 GHz	6 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCPGA946	CW8064701470702			HM86, HM87, QM87
i7-4700HQ	Haswell	Q2'13	4 / 8	2.40 GHz	6 MB		22 nm	47 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1364	CL8064701470302			HM86, HM87, QM87
i7-4650U	Haswell	Q3'13	2 / 4	1.70 GHz	4 MB		22 nm	15 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1168	CL8064701462800			HM86, HM87, QM87
i7-4610Y	Haswell	Q3'13	2 / 4	1.70 GHz	4 MB		22 nm	11.5 W	No	Yes	3	12	+	+	+	+	+	+	+	+	+			+					+		CL8064701512303			HM86, HM87, QM87
i7-4600U	Haswell	Q3'13	2 / 4	2.10 GHz	4 MB		22 nm	15 W	No	Yes	3	12	+	+	+	+	+	+	+	+	+			+					+	FCBGA1168	CL8064701477000			HM86, HM87, QM87
i7-4600M	Haswell	Q4'13	2 / 4	2.90 GHz	4 MB		22 nm	37 W	No	Yes	3	16	+	+	+	+	+	+	+	+	+			+					+			CW8064701486306		HM86, HM87, QM87
i7-4558U	Haswell	Q3'13	2 / 4	2.80 GHz	4 MB		22 nm	28 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1168	CL8064701481303			HM86, HM87, QM87
i7-4550U	Haswell	Q3'13	2 / 4	1.50 GHz	4 MB		22 nm	15 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1168	CL8064701462901			HM86, HM87, QM87
i7-4500U	Haswell	Q3'13	2 / 4	1.80 GHz	4 MB		22 nm	15 W	No	Yes	3	12	2.0	+	+	+	+	+	+	+	+	+		+	+	+			+	FCBGA1168	CL8064701477202			HM86, HM87, QM87
i7-3840QM	Ivy Bridge	Q3'12	4 / 8	2.80 GHz	8 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988 / FCBGA1224	AV8063801104100	AW8063801103800		HM75, HM76, HM77, QM77, QS77
i7-3820QM	Ivy Bridge	Q2'12	4 / 8	2.70 GHz	8 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988	AV8063801012806	AW8063801012708		HM75, HM76, HM77, QM77, QS77
i7-3740QM	Ivy Bridge	Q3'12	4 / 8	2.70 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988	AV8063801105300	AW8063801105000	BX80638I73740QM	
i7-3720QM	Ivy Bridge	Q2'12	4 / 8	2.60 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988	AV8063801013210	AW8063801013116		HM75, HM76, HM77, QM77
i7-3689Y	Ivy Bridge	Q1'13	2 / 4	1.50 GHz	4 MB	5 GT/s DMI	22 nm	13 W	No	Yes	3		2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801378203			HM75, HM76, HM77, QM77, QS77, UM77
i7-3687U	Ivy Bridge	Q1'13	2 / 4	2.10 GHz	4 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801119903			HM75, HM76, HM77, QM77, QS77, UM77
i7-3667U	Ivy Bridge	Q2'12	4 / 8	2.00 GHz	4 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801057405			HM75, HM76, HM77, QM77, QS77, UM77
i7-3635QM	Ivy Bridge	Q3'12	4 / 8	2.40 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	FCBGA1224	AV8063801106500			HM75, HM76, HM77, QM77
i7-3632QM	Ivy Bridge	Q3'12	4 / 8	2.20 GHz	6 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	2.0	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988		AW8063801152800		HM75, HM76, HM77, QM77
i7-3630QM	Ivy Bridge	Q3'12	4 / 8	2.40 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+			+	+	+	+	+	+	+	+	+	+	+	FCPGA988		AW8063801106200		HM75, HM76, HM77, QM77
i7-3615QM	Ivy Bridge	Q2'12	4 / 8	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224	AV8063801013612			HM75, HM76, HM77, QM77
i7-3615QE	Ivy Bridge	Q2'12	4 / 8	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	Yes	Yes	3	16	2.0	+	+	+	+	+	+	+		+		+	+	+	+	+	+	FCBGA1023	AV8063801117503			HM65, QM67, QM77
i7-3612QM	Ivy Bridge	Q2'12	4 / 8	2.10 GHz	6 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224	AV8063801130704			HM75, HM76, HM77, QM77, QS77
i7-3612QE	Ivy Bridge	Q2'12	4 / 8	2.10 GHz	6 MB	5 GT/s DMI	22 nm	35 W	Yes	Yes	3	16	2.0	+	+	+	+	+	+	+		+		+	+	+	+	+	+	FCBGA1023	AV8063801149203			HM65, QM67, QM77
i7-3610QM	Ivy Bridge	Q2'12	4 / 8	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988		AW8063801013511		HM75, HM76, HM77, QM77
i7-3610QE	Ivy Bridge	Q2'12	4 / 8	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	Yes	Yes	3	16	2.0	+	+	+	+	+	+	+		+		+	+	+	+	+	+	FCPGA988		AW8063801118306		HM65, QM67, QM77
i7-3555LE	Ivy Bridge	Q2'12	2 / 4	2.50 GHz	4 MB	5 GT/s DMI	22 nm	25 W	Yes	Yes	3	16	2.0	+	+	+	+	+	+	+		+		+	+	+	+	+	+	FCBGA1023	AV8063801116902			HM65, QM67, QM77
i7-3540M	Ivy Bridge	Q1'13	2 / 4	3.00 GHz	4 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3		2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801109800	AW8063801108900		HM75, HM76, HM77, QM77,QS77
i7-3537U	Ivy Bridge	Q1'13	2 / 4	2.00 GHz	4 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	1	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801119700			HM75, HM76, HM77, QM77,QS77, UM77

Intel® Mobile Processors

Intel® Core™ i7 Mobile (Cont.)

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Lithography	Max TDP	Embedded Option	Integrated Graphics	# of Displays	# PCIe Lanes	Turbo	vPro	HT	VT-x	VT-d	TXT	AES	64	Anti	WiFi	4G	IS	EIST	TMT	Fast	Flex	XDB	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #	Boxed Part #	Chipsets
INTEL® CORE™ i7 MOBILE PROCESSOR SERIES																																	
i7-3520M	Ivy Bridge	Q2'12	2 / 4	2.90 GHz	4 MB	5 GT/s DMI	22 nm	35 W	No	Yes	3	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / FCPGA988	AV8063801028803	AW8063801028703		HM75, HM76, HM77, QM77,QS77
i7-3517UE	Ivy Bridge	Q2'12	2 / 4	1.70 GHz	4 MB	5 GT/s DMI	22 nm	17 W	Yes	Yes	3	16	2.0	+	+	+	+		+	+		+		+	+	+	+	+	+	FCBGA1023	AV8063801149401			HM75, HM76, HM77, QM77,QS77, UM77
i7-3517U	Ivy Bridge	Q2'12	2 / 4	1.90 GHz	4 MB	5 GT/s DMI	22 nm	17 W	No	Yes	3	16	2.0	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8063801057605			HM75, HM76, HM77, QM77, QS77, UM77
i7-2860QM	Sandy Bridge	Q4'11	4 / 8	2.50 GHz	8 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988	AV8062701065204	FF8062701065100		HM65, HM67, QM67
i7-2820QM	Sandy Bridge	Q1'11	4 / 8	2.30 GHz	8 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988	AV8062700834912	FF8062700834709		HM65, HM67, QM67
i7-2760QM	Sandy Bridge	Q4'11	4 / 8	2.40 GHz	6 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988	AV8062701065404	FF8062701065300		HM65, HM67, QM67
i7-2720QM	Sandy Bridge	Q1'11	4 / 8	2.20 GHz	6 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1224 / FCPGA988	AV8062700836011	FF8062700835817		HM65, HM67, QM67
i7-2715QE	Sandy Bridge	Q1'11	4 / 8	2.10 GHz	6 MB	5 GT/s DMI	32 nm	45 W	Yes	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700843908			HM65, QM67
i7-2710QE	Sandy Bridge	Q1'11	4 / 8	2.10 GHz	6 MB	5 GT/s DMI	32 nm	45 W	Yes	Yes	2	20	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCPGA988		FF8062700841002		HM65, QM67
i7-2677M	Sandy Bridge	Q2'11	2 / 4	1.80 GHz	4 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701041005			HM65, HM67, QM67, QS67, UM67
i7-2675QM	Sandy Bridge	Q4'11	4 / 8	2.20 GHz	6 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	+	FCBGA1224	AV8062701065604			
i7-2670QM	Sandy Bridge	Q4'11	4 / 8	2.20 GHz	6 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	+	FCPGA988		FF8062701065500		HM65, HM67, QM67
i7-2655LE	Sandy Bridge	Q1'11	2 / 4	2.20 GHz	4 MB	5 GT/s DMI	32 nm	25 W	Yes	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700849508			HM65, QM67
i7-2649M	Sandy Bridge	Q1'11	2 / 4	2.30 GHz	4 MB	5 GT/s DMI	32 nm	25 W	No	Yes	2	16	2.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700850010			HM65, HM67, QM67, QS67, UM67
i7-2640M	Sandy Bridge	Q4'11	2 / 4	2.80 GHz	4 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700839107	FF8062700838905		HM65, HM67, QM67
i7-2637M	Sandy Bridge	Q2'11	2 / 4	1.70 GHz	4 MB	5 GT/s DMI	32 nm	17 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062701041105			HM65, HM67, QM67, QS67, UM67
i7-2635QM	Sandy Bridge	Q1'11	4 / 8	2.00 GHz	6 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	+	FCBGA1224	AV8062700837205			HM65, HM67, QM67
i7-2630QM	Sandy Bridge	Q1'11	4 / 8	2.00 GHz	6 MB	5 GT/s DMI	32 nm	45 W	No	Yes	2	16	2.0		+	+			+	+	+	+	+	+	+	+	+	+	+	FCPGA988		FF8062700837005		HM65, HM67, QM67
i7-2629M	Sandy Bridge	Q1'11	2 / 4	2.10 GHz	4 MB	5 GT/s DMI	32 nm	25 W	No	Yes	2	16	2.0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700851111			HM65, HM67, QM67, QS67, UM67
i7-2620M	Sandy Bridge	Q1'11	2 / 4	2.70 GHz	4 MB	5 GT/s DMI	32 nm	35 W	No	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023 / PPGA988	AV8062700839009	FF8062700838809		HM65, HM67, QM67, QS67
i7-2610UE	Sandy Bridge	Q1'11	2 / 4	1.50 GHz	4 MB	5 GT/s DMI	32 nm	17 W	Yes	Yes	2	16	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	FCBGA1023	AV8062700849607			HM65, QM67
i7-660UE	Arrandale	Q1'10	2 / 4	1.33 GHz	4 MB	2.5 GT/s DMI	32 nm	18 W	Yes	Yes	2	16	+		+	+	+	+	+	+				+	+	+	+	+	+	BGA1288	CN80617006204AA			HM57, QM57, QS57
i7-620UE	Arrandale	Q1'10	2 / 4	1.60 GHz	4 MB	2.5 GT/s DMI	32 nm	18 W	Yes	Yes	2	1	+		+	+	+	+	+	+				+	+	+	+	+	+	BGA1288	CN80617004458AB			HM55, QM57
i7-620M	Arrandale	Q1'10	2 / 4	2.66 GHz	4 MB	2.5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	+		+	+	+	+	+	+				+	+	+	+	+	+	PGA988		CP80617003981AH		HM55, HM57, PM55, QM57, QS57
i7-620LE	Arrandale	Q1'10	2 / 4	2.00 GHz	4 MB	2.5 GT/s DMI	32 nm	25 W	Yes	Yes	2	1	+		+	+	+	+	+	+				+	+	+	+	+	+	BGA1288	CN80617004455AB			HM55, QM57
i7-610E	Arrandale	Q1'10	2 / 4	2.53 GHz	4 MB	2.5 GT/s DMI	32 nm	35 W	Yes	Yes	2	16	+		+	+	+	+	+	+				+	+	+	+	+	+	BGA1288	CN80617005745AB			HM55, QM57

Intel® Server Processors & Chipsets

Intel® Xeon® Processor E3 & E7 Family

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	# PCIe Lanes	Max CPU	Socket	Turbo	vPro	HT	VT-x	VT-d	EPT	TXT	AES	64	IS	DBS	EIST	TMT	Fast	Flex	XDB	S-Key	Tray Part #	Boxed Part #	Compatible Chipset
INTEL® XEON® PROCESSOR E3 FAMILY																																
E3-1290 v2	Ivy Bridge	Q2'12	4 / 8	3.70 GHz	8 MB	5 GT/s DMI	22 nm	87 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701099101		C202, C204, C206, C216
E3-1290	Sandy Bridge	Q3'11	4 / 8	3.60 GHz	8 MB	5 GT/s DMI	32 nm	95 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062301071705		C202, C204, C206, C216
E3-1285L v3	Haswell	Q2'13	4 / 8	3.10 GHz	8 MB	5 GT/s DMI	22 nm	65 W	No	16	1	FCLGA1150	2.0		+	+	+	+	+	+	+	+		+	+			+	+	CM8064601466804		
E3-1285 v3	Haswell	Q2'13	4 / 8	3.60 GHz	8 MB	5 GT/s DMI	22 nm	95 W	No	16	1	FCLGA1150	2.0		+	+	+	+	+	+	+	+		+	+			+	+	CM8064601466703		
E3-1280 v3	Haswell	Q2'13	4 / 8	3.60 GHz	8 MB	5 GT/s DMI	22 nm	95 W	No	16	1	FCLGA1150	2.0	+	+	+	+	+	+	+	+	+		+	+			+	+	CM8064601467001		
E3-1280 v2	Ivy Bridge	Q2'12	4 / 8	3.60 GHz	8 MB	5 GT/s DMI	22 nm	69 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701098404	BX80637E31280V2	C202, C204, C206, C216
E3-1280	Sandy Bridge	Q2'11	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	32 nm	95 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062307261903	BX80623E31280	C202, C204, C206, C216
E3-1275 v3	Haswell	Q2'13	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	22 nm	95 W	Yes	16	1	FCLGA1150	2.0		+	+	+	+	+	+	+	+		+	+			+	+	CM8064601466508	BX80646E31275V3	
E3-1275 v2	Ivy Bridge	Q2'12	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	22 nm	77 W	Yes		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701098702	BX80637E31275V2	C202, C204, C206, C216
E3-1275	Sandy Bridge	Q2'11	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	32 nm	95 W	Yes	20	1	LGA1155	2.0	+	+	+	+	+	+	+	+	+	+		+	+	+	+		CM8062307262003	BX80623E31275	C202, C204, C206, C216
E3-1270 v3	Haswell	Q2'13	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	22 nm	80 W	No	16	1	FCLGA1150	2.0		+	+		+	+	+	+	+		+	+			+	+	CM8064601467101	BX80646E31270V3	
E3-1270 v2	Ivy Bridge	Q2'12	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	22 nm	69 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701098301	BX80637E31270V2	C202, C204, C206, C216
E3-1270	Sandy Bridge	Q2'11	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	32 nm	80 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062307262403	BX80623E31270	C202, C204, C206, C216
E3-1265L v3	Haswell	Q2'13	4 / 8	2.50 GHz	8 MB	5 GT/s DMI	22 nm	45 W	No	16	1	FCLGA1150	2.0		+	+	+	+	+	+	+	+		+	+			+	+	CM8064601467406		
E3-1265L v2	Ivy Bridge	Q2'12	4 / 8	2.50 GHz	8 MB	5 GT/s DMI	22 nm	45 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+						CM8063701098906	BX80637E31265L2	C202, C204, C206, C216
E3-1260L	Sandy Bridge	Q2'11	4 / 8	2.40 GHz	8 MB	5 GT/s DMI	32 nm	45 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM806230106180		C202, C204, C206, C216
E3-1245 v3	Haswell	Q2'13	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	22 nm	95 W	No	16	1	FCLGA1150	2.0	+	+	+	+	+	+	+	+	+	+	+	+			+	+	CM8064601466509	BX80646E31245V3	
E3-1245 v2	Ivy Bridge	Q2'12	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	22 nm	77 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701098602	BX80637E31245V2	C202, C204, C206, C216
E3-1245	Sandy Bridge	Q2'11	4 / 8	3.30 GHz	8 MB	5 GT/s DMI	32 nm	95 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062307262103	BX80623E31245	C202, C204, C206, C216
E3-1240 v3	Haswell	Q2'13	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	22 nm	80 W	No	16	1	FCLGA1150	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8064601467102	BX80646E31240V3	
E3-1240 v2	Ivy Bridge	Q2'12	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	22 nm	69 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701098201	BX80637E31240V2	C202, C204, C206, C216
E3-1240	Sandy Bridge	Q2'11	4 / 8	3.30 GHz	8 MB	5 GT/s DMI	32 nm	80 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062307262503	BX80623E31240	C202, C204, C206, C216
E3-1235	Sandy Bridge	Q2'11	4 / 8	3.20 GHz	8 MB	5 GT/s DMI	32 nm	95 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062307262206	BX80623E31235	C202, C204, C206, C216
E3-1230L v3	Haswell	Q2'13	4 / 8	1.80 GHz	8 MB	5 GT/s DMI	22 nm	25 W	No	16	1	FCLGA1150	2.0		+	+		+	+	+	+	+		+	+			+	+	CM8064601467601		
E3-1230 v3	Haswell	Q2'13	4 / 8	3.30 GHz	8 MB	5 GT/s DMI	22 nm	80 W	No	16	1	FCLGA1150	2.0		+	+		+	+	+	+	+		+	+			+	+	CM8064601467202	BX80646E31230V3	
E3-1230 v2	Ivy Bridge	Q2'12	4 / 8	3.30 GHz	8 MB	5 GT/s DMI	22 nm	69 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701098101	BX80637E31230V2	C202, C204, C206, C216
E3-1230	Sandy Bridge	Q2'11	4 / 8	3.20 GHz	8 MB	5 GT/s DMI	32 nm	80 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062307262610	BX80623E31230	C202, C204, C206, C216
E3-1225 v3	Haswell	Q2'13	4 / 8	3.20 GHz	8 MB	5 GT/s DMI	32 nm	95 W	Yes	16	1	FCLGA1150	2.0		+	+	+	+	+	+	+	+		+	+			+	+	CM8064601466507	BX80646E31225V3	
E3-1225 v2	Ivy Bridge	Q2'12	4 / 4	3.20 GHz	8 MB	5 GT/s DMI	22 nm	77 W	Yes		1	FCLGA1155	2.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701160603	BX80637E31225V2	C202, C204, C206, C216
E3-1225	Sandy Bridge	Q2'11	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	32 nm	95 W	Yes	20	1	LGA1155	2.0	+		+	+		+	+	+	+	+		+	+	+	+		CM8062307262304	BX80623E31225	C202, C204, C206, C216
E3-1220L v3	Haswell	Roadmap	2 / 4	1.10 GHz	4 MB		22 nm	13 W	No		1	FCLGA1150	2.0		+	+		+	+	+	+	+		+	+			+	+	CM8064601481914		
E3-1220L v2	Ivy Bridge	Q2'12	2 / 4	2.30 GHz	3 MB	5 GT/s DMI	22 nm	17 W	No		1	FCLGA1155	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701099001		C202, C204, C206, C216
E3-1220L	Sandy Bridge	Q2'11	2 / 4	2.20 GHz	3 MB	5 GT/s DMI	32 nm	20 W	No	20	1	LGA1155	2.0	+	+	+	+		+	+	+	+	+		+	+	+	+		CM8062307262828		C202, C204, C206, C216
E3-1220 v3	Haswell	Q2'13	4 / 4	3.10 GHz	8 MB	5 GT/s DMI	22 nm	80 W	No	16	1	FCLGA1150	2.0			+		+	+	+	+	+		+	+			+	+	CM8064601467204	BX80646E31220V3	
E3-1220 v2	Ivy Bridge	Q2'12	4 / 4	3.10 GHz	8 MB	5 GT/s DMI	22 nm	69 W	No		1	FCLGA1155	2.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+		CM8063701160503	BX80637E31220V2	C202, C204, C206, C216
E3-1220	Sandy Bridge	Q2'11	4 / 4	3.10 GHz	8 MB	5 GT/s DMI	32 nm	80 W	No	20	1	LGA1155	2.0	+		+	+		+	+	+	+	+		+	+	+	+		CM8062307262304	BX80623E31225	C202, C204, C206, C216
E3-1125C v2	Gladden	Q3'13	4 / 8	2.50 GHz	8 MB	5 GT/s DMI	22 nm	40 W	Yes	20	1	FCBGA1284			+	+	+	+	+	+	+	+		+	+	+	+	+		CN8063801193902		
E3-1125C	Gladden	Q2'12	4 / 8	2.00 GHz	8 MB	5 GT/s DMI	45 nm	40 W	Yes		1	FCBGA1284			+	+	+	+	+	+	+	+	+	+	+	+	+	+		AV8062701146600		
E3-1105C v2	Gladden	Q3'13	4 / 8	1.80 GHz	8 MB	5 GT/s DMI	22 nm	25 W	Yes	20	1	FCBGA1284			+	+	+	+	+	+	+	+	+	+	+	+	+	+		CN8063801194002		
E3-1105C	Gladden	Q2'12	4 / 8	1.00 GHz	6 MB	5 GT/s DMI	45 nm	25 W	Yes		1	FCBGA1284			+	+	+	+	+	+	+	+	+	+	+	+	+	+		AV8062701048800		
INTEL® XEON® PROCESSOR E7 FAMILY																																
E7-8870	Westmere EX	Q2'11	10 / 20	2.40 GHz	30 MB	6.40 GT/s QPI	32 nm	130 W	No		8	LGA1567	+		+	+			+	+	+			+	+			+		AT80615005757AB		7500
E7-8867L	Westmere EX	Q2'11	10 / 20	2.13 GHz	30 MB	6.40 GT/s QPI	32 nm	105 W	No		8	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007002AB		7500
E7-8860	Westmere EX	Q2'11	10 / 20	2.26 GHz	24 MB	6.40 GT/s QPI	32 nm	130 W	No		8	LGA1567	+		+	+			+	+	+			+	+			+		AT80615005760AB		7500
E7-8850	Westmere EX	Q2'11	10 / 20	2.00 GHz	24 MB	6.40 GT/s QPI	32 nm	130 W	No		8	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007446AA		7500
E7-8837	Westmere EX	Q2'11	8 / 8	2.66 GHz	24 MB	6.40 GT/s QPI	32 nm	130 W	No		8	LGA1567	+			+			+	+	+			+	+			+		AT80615006750AB		7500

Intel® Server Processors & Chipsets

Intel® Xeon® Processor E3 & E7 Family (Cont.)

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	# PCIe Lanes	Max CPU	Socket	Turbo	vPro	HT	VT-x	VT-d	EPT	TXT	AES	64	IS	DBS	EIST	TMT	Fast	Flex	XDB	S-Key	Tray Part #	Boxed Part #	Compatible Chipset
INTEL® XEON® PROCESSOR E7 FAMILY																																
E7-8830	Westmere EX	Q2'11	8 / 16	2.13 GHz	24 MB	6.40 GT/s QPI	32 nm	105 W	No		8	LGA1567	+		+	+			+	+	+			+	+			+		AT80615005826AB		7500
E7-4870	Westmere EX	Q2'11	10 / 20	2.40 GHz	30 MB	6.40 GT/s QPI	32 nm	130 W	No		4	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007263AA	BX80615E74870	7500
E7-4860	Westmere EX	Q2'11	10 / 20	2.26 GHz	24 MB	6.40 GT/s QPI	32 nm	130 W	No		4	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007254AA		7500
E7-4850	Westmere EX	Q2'11	10 / 20	2.00 GHz	24 MB	6.40 GT/s QPI	32 nm	130 W	No		4	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007449AA		7500
E7-4830	Westmere EX	Q2'11	8 / 16	2.13 GHz	24 MB	6.40 GT/s QPI	32 nm	105 W	No		4	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007089AA	BX80615E74830	7500
E7-4820	Westmere EX	Q2'11	8 / 16	2.00 GHz	18 MB	5.86 GT/s QPI	32 nm	105 W	No		4	LGA1567	+		+	+			+	+	+			+	+			+		AT80615005772AC		7500
E7-4807	Westmere EX	Q2'11	6 / 12	1.86 GHz	18 MB	4.8 GT/s QPI	32 nm	95 W	No		4	LGA1567			+	+			+	+	+			+	+			+		AT80615006432AB		7500
E7-2870	Westmere EX	Q2'11	10 / 20	2.40 GHz	30 MB	6.40 GT/s QPI	32 nm	130 W	No		2	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007266AA		7500
E7-2860	Westmere EX	Q2'11	10 / 20	2.26 GHz	24 MB	6.40 GT/s QPI	32 nm	130 W	No		2	LGA1567	+		+	+			+	+	+			+	+			+		AT80615005781AB		7500
E7-2850	Westmere EX	Q2'11	10 / 20	2.00 GHz	24 MB	6.40 GT/s QPI	32 nm	130 W	No		2	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007452AA		7500
E7-2830	Westmere EX	Q2'11	8 / 16	2.13 GHz	24 MB	6.40 GT/s QPI	32 nm	105 W	No		2	LGA1567	+		+	+			+	+	+			+	+			+		AT80615005787AB		7500
E7-2820	Westmere EX	Q2'11	8 / 16	2.00 GHz	18 MB	5.86 GT/s QPI	32 nm	105 W	No		2	LGA1567	+		+	+			+	+	+			+	+			+		AT80615007245AA		7500
E7-2803	Westmere EX	Q2'11	6 / 12	1.73 GHz	18 MB	4.8 GT/s QPI	32 nm	105 W	No		2	LGA1567			+	+			+	+	+			+	+			+		AT80615006438AB		7500

Intel® Xeon® Processor E5 Family

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	# PCIe Lanes	Max CPU	Socket	Turbo	vPro	HT	VT-x	VT-d	EPT	TXT	AES	64	IS	DBS	EIST	TMT	XDB	Tray Part #	Boxed Part #	Compatible Chipset
INTEL® XEON® PROCESSOR E5 FAMILY																													
E5-4650L	Sandy Bridge-EP	Q2'12	8 / 16	2.60 GHz	20 MB	8.0 GT/s QPI	32 nm	115 W	No		4	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101229300	BX80621E54650L	C602, C602J, C604, C606, C608
E5-4650	Sandy Bridge-EP	Q2'12	8 / 16	2.70 GHz	20 MB	8.0 GT/s QPI	32 nm	130 W	No		4	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101229200	BX80621E54650	C602, C602J, C604, C606, C608
E5-4640	Sandy Bridge-EP	Q2'12	8 / 16	2.40 GHz	20 MB	8.0 GT/s QPI	32 nm	95 W	No		4	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101229400	BX80621E54640	C602, C602J, C604, C606, C608
E5-4620	Sandy Bridge-EP	Q2'12	8 / 16	2.20 GHz	16 MB	7.2 GT/s QPI	32 nm	95 W	No		4	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101145500	BX80621E54620	C602, C602J, C604, C606, C608
E5-4617	Sandy Bridge-EP	Q2'12	6 / 6	2.90 GHz	15 MB	7.2 GT/s QPI	32 nm	130 W	No		4	FCLGA2011	2.0	+		+	+	+	+	+	+	+	+	+	+	+	CM8062101145700		C602, C602J, C604, C606, C608
E5-4610	Sandy Bridge-EP	Q2'12	6 / 12	2.40 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	No		4	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062100862401	BX80621E54610	C602, C602J, C604, C606, C608
E5-4607	Sandy Bridge-EP	Q2'12	6 / 12	2.20 GHz	12 MB	6.4 GT/s QPI	32 nm	95 W	No		4	FCLGA2011		+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101038501	BX80621E54607	C602, C602J, C604, C606, C608
E5-4603	Sandy Bridge-EP	Q2'12	4 / 8	2.00 GHz	10 MB	6.4 GT/s QPI	32 nm	95 W	No		4	FCLGA2011		+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101190400	BX80621E54603	C602, C602J, C604, C606, C608
E5-2697 v2	Ivy Bridge	Q3'13	12 / 24	2.70 GHz	30 MB	8.0 GT/s QPI	22 nm	130 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501288843	BX80635E52697V2	C602, C602J, C604, C606, C608
E5-2695 v2	Ivy Bridge	Q3'13	12 / 24	2.40 GHz	30 MB	8.0 GT/s QPI	22 nm	115 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501288706	WX80635E52695V2	
E5-2690	Sandy Bridge-EP	Q1'12	8 / 16	2.90 GHz	20 MB	8.0 GT/s QPI	32 nm	135 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101122501	BX80621E52690	C602, C602J, C604, C606, C608
E5-2687W	Sandy Bridge-EP	Q2'12	8 / 16	3.10 GHz	20 MB	8.0 GT/s QPI	32 nm	150 W	No		2	LGA2011-0	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062107184308	BX80621E52687W	C602, C602J, C604, C606, C608
E5-2690 v2	Ivy Bridge	Q3'13	10 / 20	3.00 GHz	25 MB	8.0 GT/s QPI	22 nm	130 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501374802	BX80635E52690V2	
E5-2687W v2	Ivy Bridge	Q3'13	8 / 16	3.40 GHz	25 MB	8.0 GT/s QPI	22 nm	150 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501287203	BX80635E52687V2	
E5-2680 v2	Ivy Bridge	Q3'13	10 / 20	2.8 GHz	25 MB	8.0 GT/s QPI	22 nm	115 W	Yes	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501374901	WX80635E52680V2	
E5-2680	Sandy Bridge-EP	Q1'12	8 / 16	2.70 GHz	20 MB	8.0 GT/s QPI	32 nm	130 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062107184424	BX80621E52680	C602, C602J, C604, C606, C608
E5-2670 v2	Ivy Bridge	Q3'13	10 / 20	2.5 GHz	25 MB	8.0 GT/s QPI	22 nm	115 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501375000	BX80635E52670V2	
E5-2670	Sandy Bridge-EP	Q1'12	8 / 16	2.60 GHz	20 MB	8.0 GT/s QPI	32 nm	115 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101082713	BX80621E52670	C602, C602J, C604, C606, C608
E5-2667 v2	Ivy Bridge	Q3'13	8 / 16	3.3 GHz	25 MB	8.0 GT/s QPI	22 nm	130 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501287304		
E5-2667	Sandy Bridge-EP	Q1'12	6 / 12	2.90 GHz	15 MB	8.0 GT/s QPI	32 nm	130 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062100854802		C602, C602J, C604, C606, C608
E5-2665	Sandy Bridge-EP	Q1'12	8 / 16	2.40 GHz	20 MB	8.0 GT/s QPI	32 nm	115 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101143101	BX80621E52665	C602, C602J, C604, C606, C608
E5-2660 v2	Ivy Bridge	Q3'13	10 / 20	2.2 GHz	25 MB	8.0 GT/s QPI	22 nm	95 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501452503	WX80635E52660V2	
E5-2660	Sandy Bridge-EP	Q1'12	8 / 16	2.20 GHz	20 MB	8.0 GT/s QPI	32 nm	95 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062107184801	BX80621E52660	C602, C602J, C604, C606, C608
E5-2658 v2	Ivy Bridge	Q3'13	10 / 20	2.4 GHz	25 MB	8.0 GT/s QPI	22 nm	95 W	Yes	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501293200		
E5-2658	Sandy Bridge-EP	Q1'12	8 / 16	2.10 GHz	20 MB	8.0 GT/s QPI	32 nm	95 W	Yes		2	FCLGA2011	2.0		+	+	+	+	+	+	+			+		+	CM8062101042805		C602, C602J, C604, C606, C608
E5-2650L v2	Ivy Bridge	Q3'13	10 / 20	1.7 GHz	25 MB	7.2 GT/s QPI	22 nm	70 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501287602		
E5-2650L	Sandy Bridge-EP	Q1'12	8 / 16	1.80 GHz	20 MB	8.0 GT/s QPI	32 nm	70 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062107185309		C602, C602J, C604, C606, C608
E5-2650 v2	Ivy Bridge	Q3'13	8 / 16	2.6 GHz	20 MB	8.0 GT/s QPI	22 nm	95 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501375101	WX80635E52650V2	
E5-2650	Sandy Bridge-EP	Q1'12	8 / 16	2.00 GHz	20 MB	8.0 GT/s QPI	32 nm	95 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062100856218	BX80621E52650	C602, C602J, C604, C606, C608

Intel® Server Processors & Chipsets

Intel® Xeon® Processor E5 Family (Cont.)

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	# PCIe Lanes	Max CPU	Socket	Turbo	vPro	HT	VT-x	VT-d	EPT	TXT	AES	64	IS	DBS	EIST	TMT	XDB	Tray Part #	Boxed Part #	Compatible Chipset
INTEL® XEON® PROCESSOR E5 FAMILY																													
E5-2648L v2	Ivy Bridge	Q3'13	10 / 20	2.50 GHz	25 MB	8.0 GT/s QPI	22 nm	70 W	Yes	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501293506		
E5-2648L	Sandy Bridge-EP	Q1'12	8 / 16	1.80 GHz	20 MB	8.0 GT/s QPI	32 nm	70 W	Yes	40	2	FCLGA2011	2.0		+	+	+	+	+	+	+			+		+	CM8062100854905		C602, C602J, C604, C606, C608
E5-2643 v2	Ivy Bridge	Q3'13	6 / 12	3.5 GHz	25 MB	8.0 GT/s QPI	22 nm	130 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501287403		
E5-2643	Sandy Bridge-EP	Q1'12	4 / 8	3.30 GHz	10 MB	8.0 GT/s QPI	32 nm	130 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062107185605		C602, C602J, C604, C606, C608
E5-2640 v2	Ivy Bridge	Q3'13	8 / 16	2 GHz	20 MB	7.2 GT/s QPI	22 nm	95 W	Yes	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501288202	WX80635E52640V2	
E5-2640	Sandy Bridge-EP	Q1'12	6 / 12	2.50 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062100856401	BX80621E52640	C602, C602J, C604, C606, C608
E5-2637 v2	Ivy Bridge	Q3'13	4 / 8	3.5 GHz	15 MB	8.0 GT/s QPI	22 nm	130 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501520800		
E5-2637	Sandy Bridge-EP	Q1'12	2 / 4	3.00 GHz	15 MB	8.0 GT/s QPI	32 nm	80 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101143202		C602, C602J, C604, C606, C608
E5-2630L v2	Ivy Bridge	Q3'13	6 / 12	2.4 GHz	15 MB	7.2 GT/s QPI	22 nm	60 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501376200		
E5-2630L	Sandy Bridge-EP	Q1'12	6 / 12	2.00 GHz	15 MB	7.2 GT/s QPI	32 nm	60 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062107185405		C602, C602J, C604, C606, C608
E5-2630 v2	Ivy Bridge	Q3'13	6 / 12	2.6 GHz	15 MB	7.2 GT/s QPI	22 nm	80 W	Yes	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501288100		
E5-2630	Sandy Bridge-EP	Q1'12	6 / 12	2.30 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	No		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101038801	BX80621E52630	C602, C602J, C604, C606, C608
E5-2628L v2	Ivy Bridge	Q3'13	8 / 16	1.9 GHz	20 MB	7.2 GT/s QPI	22 nm	70 W	Yes	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501522202		
E5-2620 v2	Ivy Bridge	Q3'13	6 / 12	2.1 GHz	15 MB	7.2 GT/s QPI	22 nm	80 W	No	40	2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501288301		
E5-2620	Sandy Bridge-EP	Q1'12	6 / 12	2.00 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	Yes		2	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101048401	BX80621E52620	C602, C602J, C604, C606, C608
E5-2618L v2	Ivy Bridge	Q3'13	6 / 12	2 GHz	15 MB	6.4 GT/s QPI	22 nm	50 W	Yes	40	2	FCLGA2011	No	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501521302		
E5-2609 v2	Ivy Bridge	Q3'13	4 / 4	2.5 GHz	10 MB	6.4 GT/s QPI	22 nm	80 W	Yes	40	2	FCLGA2011	No	+		+	+	+	+	+	+	+	+	+	+	+	CM8063501375800		
E5-2609	Sandy Bridge-EP	Q1'12	4 / 4	2.4 GHz	10 MB	6.4 GT/s QPI	32 nm	80 W	No	40	2	FCLGA2011	No	+		+	+	+	+	+	+	+	+	+	+	+	CM8062107186604	BX80621E52609	C602, C602J, C604, C606, C608
E5-2603 v2	Ivy Bridge	Q3'13	4 / 4	1.8 GHz	10 MB	6.4 GT/s QPI	22 nm	80 W	No	40	2	FCLGA2011	No	+		+	+	+	+	+	+	+	+	+	+	+	CM8063501375902		
E5-2603	Sandy Bridge-EP	Q1'12	4 / 4	1.8 GHz	10 MB	6.4 GT/s QPI	32 nm	80 W	No	40	2	FCLGA2011	No	+		+	+	+	+	+	+	+	+	+	+	+	CM8062100856501	BX80621E52603	C602, C602J, C604, C606, C608
E5-2470 v2	Ivy Bridge	Roadmap	10 / 20	2.4 GHz	25 MB	8.0 GT/s QPI	22 nm	95 W	No	24		FCLGA1356	2.0		+		+	+	+	+	+	+		+	+	+	CM8063401286102		
E5-2470	Sandy Bridge-EN	Q2'12	8 / 16	2.3 GHz	20 MB	8.0 GT/s QPI	32 nm	95 W	No	24	2	FCLGA1356	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062007187242	BX80621E52470	C602, C602J, C604, C606, C608
E5-2450L v2	Ivy Bridge	Roadmap	10 / 20	1.7 GHz	25 MB	7.2 GT/s QPI	22 nm	60 W	No	24		FCLGA1356	2.0		+		+	+	+	+	+	+		+	+	+	CM8063401287001		
E5-2450L	Sandy Bridge-EP	Q2'12	8 / 16	1.80 GHz	20 MB	8.0 GT/s QPI	32 nm	70 W	No		2	FCLGA1356	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062007283711		C602, C602J, C604, C606, C608
E5-2450 v2	Ivy Bridge	Roadmap	8 / 16	2.5 GHz	20 MB	8.0 GT/s QPI	22 nm	95 W	Yes	24		FCLGA1356	2.0		+		+	+	+	+	+	+		+	+	+	CM8063401376400		
E5-2450	Sandy Bridge-EP	Q2'12	8 / 16	2.10 GHz	20 MB	8.0 GT/s QPI	32 nm	95 W	No		2	FCLGA1356	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062000862501	BX80621E52450	C602, C602J, C604, C606, C608
E5-2448L v2	Ivy Bridge	Roadmap	10 / 20	1.80 GHz	25 MB	8.0 GT/s QPI	22 nm	70 W	Yes	24		FCLGA1356	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063401293802		
E5-2448L	Sandy Bridge-EP	Q2'12	8 / 16	1.80 GHz	20 MB	8.0 GT/s QPI	32 nm	70 W	Yes		2	FCLGA1356	2.0		+	+	+	+	+	+	+			+		+	CM8062007187409		C602, C602J, C604, C606, C608
E5-2440 v2	Ivy Bridge	Roadmap	8 / 16	1.9 GHz	20 MB	7.2 GT/s QPI	22 nm	95 W	No	24		FCLGA1356	2.0		+		+	+	+	+	+	+		+	+	+	CM8063401286303		
E5-2440	Sandy Bridge-EP	Q2'12	6 / 12	2.40 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	No		2	FCLGA1356	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062000862604	BX80621E52440	C602, C602J, C604, C606, C608
E5-2430L v2	Ivy Bridge	Roadmap	6 / 12	2.4 GHz	15 MB	7.2 GT/s QPI	22 nm	60 W	No	24		FCLGA1356	2.0		+		+	+	+	+	+	+		+	+	+	CM8063401376704		
E5-2430L	Sandy Bridge-EP	Q2'12	6 / 12	2.00 GHz	15 MB	7.2 GT/s QPI	32 nm	60 W	No		2	FCLGA1356	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062000862912		C602, C602J, C604, C606, C608
E5-2430 v2	Ivy Bridge	Roadmap	6 / 12	2.5 GHz	15 MB	7.2 GT/s QPI	22 nm	80 W	Yes	24		FCLGA1356	2.0		+		+	+	+	+	+	+		+	+	+	CM8063401286400		
E5-2430	Sandy Bridge-EN	Q2'12	6 / 12	2.2 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	Yes	24	2	FCLGA1356	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062001122601	BX80621E52430	C602, C602J, C604, C606, C608
E5-2428L v2	Ivy Bridge	Roadmap	8 / 16	2.30 GHz	20 MB	7.2 GT/s QPI	22 nm	60 W	Yes	24		FCLGA1356	2.0	+	+	+	+	+	+	+	+	+	+	+	+		CM8063401293902		
E5-2428L	Sandy Bridge-EN	Q2'12	6 / 12	1.80 GHz	15 MB	7.2 GT/s QPI	32 nm	60 W	Yes	24	2	FCLGA1356	+		+	+	+	+	+	+	+			+		+	CM8062007187509		C602, C602J, C604, C606, C608
E5-2420 v2	Ivy Bridge	Roadmap	6 / 12	2.2 GHz	15 MB	7.2 GT/s QPI	22 nm	80 W	No	24		FCLGA1356	2.0		+		+	+	+	+	+			+	+	+	CM8063401286503		
E5-2420	Sandy Bridge-EN	Q2'12	6 / 12	1.90 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	No	24	2	FCLGA1356	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062001183000	BX80621E52420	C602, C602J, C604, C606, C608
E5-2418L v2	Ivy Bridge	Roadmap	6 / 12	2.00 GHz	15 MB	6.4 GT/s QPI	22 nm	50 W	Yes	24		FCLGA1356	2.0		+		+	+	+	+	+	+		+	+	+	CM8063401294008		
E5-2418L	Sandy Bridge-EN	Q2'12	6 / 12	2.00 GHz	10 MB	6.4 GT/s QPI	32 nm	50 W	Yes	24	2	FCLGA1356	+		+	+	+	+	+	+	+			+		+	CM8062000911406		C602, C602J, C604, C606, C608
E5-2407 v2	Ivy Bridge	Roadmap	4 / 4	2.4 GHz	10 MB	6.4 GT/s QPI	22 nm	80 W	No	24		FCLGA1356	2.0				+	+	+	+	+	+		+	+	+	CM8063401286600		
E5-2407	Sandy Bridge-EP	Q2'12	4 / 4	2.20 GHz	10 MB	6.4 GT/s QPI	32 nm	80 W	No		2	FCLGA1356		+		+	+	+	+	+	+	+	+	+	+	+	CM8062001048200	BX80621E52407	C602, C602J, C604, C606, C608
E5-2403 v2	Ivy Bridge	Roadmap	4 / 4	1.8 GHz	10 MB	6.4 GT/s QPI	22 nm	80 W	No	24		FCLGA1356	2.0				+	+	+	+	+	+		+	+	+	CM8063401286702		
E5-2403	Sandy Bridge-EP	Q2'12	4 / 4	1.80 GHz	10 MB	6.4 GT/s QPI	32 nm	80 W	No		2	FCLGA1356		+		+	+	+	+	+	+	+	+	+	+	+	CM8062001048300	BX80621E52403	C602, C602J, C604, C606, C608
E5-1660 v2	Ivy Bridge	Q3'13	6 / 12	3.7 GHz	15 MB		22 nm	130 W	No	40	1	FCLGA2011	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501291808		
E5-1660	Sandy Bridge-EP	Q1'12	6 / 12	3.30 GHz	15 MB		32 nm	130 W	No		1	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062107284111	BX80621E51660	C602, C602J, C604, C606, C608
E5-1650 v2	Ivy Bridge	Q3'13	6 / 12	3.5 GHz	12 MB		22 nm	130 W	No	40	1	FCLGA2011	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501292204		
E5-1650	Sandy Bridge-EP	Q1'12	6 / 12	3.20 GHz	10 MB		32 nm	130 W	No		1	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101102002		C602, C602J, C604, C606, C608
E5-1620 v2	Ivy Bridge	Q3'13	4 / 8	3.7 GHz	10 MB		22 nm	130 W	No	40	1	FCLGA2011	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8063501292405		
E5-1620	Sandy Bridge-EP	Q1'12	4 / 8	3.60 GHz	10 MB		32 nm	130 W	No		1	FCLGA2011	2.0	+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062101038606		C602, C602J, C604, C606, C608
E5-1428L v2	Ivy Bridge	Roadmap	6 / 12	2.20 GHz	15 MB			60 W	Yes			FCLGA1356	+		+	+				+			+		+	CM8063401521400		
E5-1428L	Sandy Bridge-EN	Q2'12	6 / 12	1.8 GHz	15 MB		32 nm	60 W	No	40	1	FCLGA1356		+	+	+	+	+	+	+	+	+	+	+	+	+	CM8062001144000		

Intel® Server Processors & Chipsets

Intel® Xeon® Processor 3000 Sequence

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	# PCIe Lanes	Max CPU	Socket	Turbo	HT	VT-x	VT-d	TXT	AES	64	IS	EIST	DBS	TMT	XDB	Tray Part #	Boxed Part #	Chipsets
INTEL® XEON® PROCESSOR 3000 SEQUENCE																											
X3480	Lynnfield	Q2'10	4 / 8	3.06 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	1	1	LGA1156	+	+	+	+	+		+	+	+	+	+	+	BV80605002505AH	BX80605X3480	3400, 3420, 3450
X3470	Lynnfield	Q3'09	4 / 8	2.93 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	1	1	LGA1156	+	+	+	+	+		+	+	+	+		+	BV80605001905AJ	BX80605X3470	3400, 3420, 3450
X3460	Lynnfield	Q3'09	4 / 8	2.80 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	1	1	LGA1156	+	+	+	+	+		+	+	+	+		+	BV80605001908AL	BX80605X3460	3400, 3420, 3450
X3450	Lynnfield	Q3'09	4 / 8	2.66 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	Yes	1	1	LGA1156	+	+	+	+	+		+	+	+	+		+	BV80605001911AQ	BX80605X3450	3400, 3420, 3450
X3440	Lynnfield	Q3'09	4 / 8	2.53 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	1	1	LGA1156	+	+	+	+	+		+	+	+	+		+	BV80605002517AQ	BX80605X3440	3400, 3420, 3450
X3430	Lynnfield	Q3'09	4 / 4	2.40 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	Yes	1	1	LGA1156	+		+	+	+		+	+	+	+		+	BV80605001914AG	BX80605X3430	3400, 3420, 3450
W3690	Gulftown	Q1'11	6 / 12	3.46 GHz	12 MB	6.40 GT/s QPI	32 nm	130 W	No		1	FCLGA1366	+	+	+		+	+	+	+	+	+		+	AT80613005931AB		
W3680	Westmere-EP	Q1'10	6 / 12	3.33 GHz	12 MB	6.40 GT/s QPI	32 nm	130 W	No		1	FCLGA1366	+	+	+		+	+	+	+	+	+		+	AT80613003543AF	BX80613W3680	
W3670	Westmere-EP	Q3'10	6 / 12	3.20 GHz	12 MB	4.80 GT/s QPI	32 nm	130 W	No		1	FCLGA1366	+	+	+		+	+	+	+	+	+		+	AT80613005490AC		
W3580	Bloomfield	Q3'09	4 / 8	3.33 GHz	8 MB	6.40 GT/s QPI	45 nm	130 W	No		1	FCLGA1366	+	+	+				+	+	+	+		+	AT80601002274AB	BX80601W3580	X58
W3570	Bloomfield	Q1'09	4 / 8	3.20 GHz	8 MB	6.40 GT/s QPI	45 nm	130 W	No		1	FCLGA1366	+	+	+				+	+	+	+		+	AT80601000918AB	BX80601W3570	X58
W3565	Bloomfield	Q4'09	4 / 8	3.20 GHz	8 MB	4.80 GT/s QPI	45 nm	130 W	No		1	FCLGA1366	+	+	+				+	+	+	+		+	AT80601002727AB	BX80601W3565	X58
W3550	Bloomfield	Q3'09	4 / 8	3.06 GHz	8 MB	4.80 GT/s QPI	45 nm	130 W	No		1	FCLGA1366	+	+	+				+	+	+	+		+	AT80601002112AB	BX80601W3550	X58
W3540	Bloomfield	Q1'09	4 / 8	2.93 GHz	8 MB	4.80 GT/s QPI	45 nm	130 W	No		1	FCLGA1366	+	+	+				+	+	+	+		+	AT80601000921AB	BX80601W3540	X58
W3530	Bloomfield	Q1'10	4 / 8	2.80 GHz	8 MB	4.80 GT/s QPI	45 nm	130 W	No		1	FCLGA1366	+	+	+				+	+	+	+		+	AT80601000897AB	BX80601W3530	X58
W3520	Bloomfield	Q1'09	4 / 8	2.66 GHz	8 MB	4.80 GT/s QPI	45 nm	130 W	No		1	FCLGA1366	+	+	+				+	+	+	+		+	AT80601000741AB	BX80601W3520	X58

Intel® Server Processors & Chipsets

Intel® Xeon® Processor 5000 Sequence

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	Max CPU	Socket	Turbo	HT	VT-x	TXT	AES	64	IS	EIST	DBS	XDB	Tray Part #	Boxed Part #	Chipsets
INTEL® XEON® PROCESSOR 5000 SEQUENCE																								
X5690	Westmere-EP	Q1'11	6 / 12	3.46 GHz	12 MB	6.40 GT/s QPI	32 nm	130 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005913AB	BX80614X5690	
X5687	Westmere-EP	Q1'11	4 / 8	3.60 GHz	12 MB	6.40 GT/s QPI	32 nm	130 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	ATT80614005919AB		
X5680	Westmere-EP	Q1'10	6 / 12	3.33 GHz	12 MB	6.40 GT/s QPI	32 nm	130 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005124AA	BX80614X5680	
X5677	Westmere-EP	Q1'10	4 / 8	3.46 GHz	12 MB	6.40 GT/s QPI	32 nm	130 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005145AB		
X5675	Westmere-EP	Q1'11	6 / 12	3.06 GHz	12 MB	6.40 GT/s QPI	32 nm	95 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614006696AA	BX80614X5675	
X5672	Westmere-EP	Q1'11	4 / 8	3.20 GHz	12 MB	6.40 GT/s QPI	32 nm	95 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005922AA		
X5670	Westmere-EP	Q1'10	6 / 12	2.93 GHz	12 MB	6.40 GT/s QPI	32 nm	95 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005130AA	BX80614X5670	
X5667	Westmere-EP	Q1'10	4 / 8	3.06 GHz	12 MB	6.40 GT/s QPI	32 nm	95 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005154AB		
X5660	Westmere-EP	Q1'10	6 / 12	2.80 GHz	12 MB	6.40 GT/s QPI	32 nm	95 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005127AA	BX80614X5660	5500, 5520
X5650	Westmere-EP	Q1'10	6 / 12	2.66 GHz	12 MB	6.40 GT/s QPI	32 nm	95 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614004320AD	BX80614X5650	
X5647	Westmere-EP	Q1'11	4 / 8	2.93 GHz	12 MB	5.86 GT/s QPI	32 nm	130 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614006780AA		
X5570	Nehalem-EP	Q1'09	4 / 8	2.93 GHz	8 MB	6.40 GT/s QPI	45 nm	95 W	No	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602000765AA	BX80602X5570	5500, 5520
X5560	Nehalem-EP	Q1'09	4 / 8	2.80 GHz	8 MB	6.40 GT/s QPI	45 nm	95 W	No	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602000768AA	BX80602X5560	5500, 5520
X5550	Nehalem-EP	Q1'09	4 / 8	2.66 GHz	8 MB	6.40 GT/s QPI	45 nm	95 W	No	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602000771AA	BX80602X5550	5500, 5520
W5590	Nehalem-EP	Q3'09	4 / 8	3.33 GHz	8 MB	6.40 GT/s QPI	45 nm	130 W	No		FCLGA1366	+	+	+			+	+	+	+	+	AT80602000753AA	BX80602W5590	5500, 5520
W5580	Nehalem-EP	Q1'09	4 / 8	3.20 GHz	8 MB	6.40 GT/s QPI	45 nm	130 W	No	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602000756AD	BX80602W5580	5500, 5520
LC5528	Jasper Forest	Q1'10	4 / 8	2.13 GHz	8 MB	4.8 GT/s QPI	45 nm	60 W	Yes	2	FCLGA1366	+	+	+	+			+	+	+	+	AT80612003858AA		3420
LC5518	Jasper Forest	Q1'10	4 / 8	1.73 GHz	8 MB	4.8 GT/s QPI	45 nm	48 W	Yes	2	FCLGA1366	+	+	+	+			+	+	+	+	AT80612002928AC		3420
LC3528	Jasper Forest	Q1'10	2 / 4	1.73 GHz	4 MB	2.5 GT/s DMI	45 nm	35 W	Yes	1	FCLGA1366	+	+	+	+			+	+	+	+	AT80612002931AB		3420
LC3518	Jasper Forest	Q1'10	1 / 1	1.73 GHz	2 MB	2.5 GT/s DMI	45 nm	23 W	Yes	1	FCLGA1366			+	+			+	+	+	+	AT80612002946AA		3420
L5640	Westmere-EP	Q1'10	6 / 12	2.26 GHz	12 MB	5.86 GT/s QPI	32 nm	60 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005133AB	BX80614L5640	
L5638	Westmere-EP	Q1'10	6 / 12	2.00 GHz	12 MB	5.86 GT/s QPI	32 nm	60 W	Yes		FCLGA1366	+	+	+	+	+	+	+				AT80614003591AB		5520
L5630	Westmere-EP	Q1'10	4 / 8	2.13 GHz	12 MB	5.86 GT/s QPI	32 nm	40 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT8061400548AA	BX80614L5630	
L5618	Westmere-EP	Q1'10	4 / 8	1.87 GHz	12 MB	5.86 GT/s QPI	32 nm	40 W	Yes		FCLGA1366	+	+	+	+	+	+	+				AT80614005079AB		5520
L5609	Westmere-EP	Q1'10	4 / 4	1.86 GHz	12 MB	4.80 GT/s QPI	32 nm	40 W	No	2	FCLGA1366			+	+	+	+	+	+	+	+	AT80614005940AA		
L5530	Nehalem-EP	Q3'09	4 / 8	2.40 GHz	8 MB	5.86 GT/s QPI	45 nm	60 W	No		FCLGA1366	+	+	+			+	+	+	+	+	AT80602002937AB	BX80602L5530	5500, 5520
L5520	Nehalem-EP	Q1'09	4 / 8	2.26 GHz	8 MB	5.86 GT/s QPI	45 nm	60 W	No	2	FCLGA1366	+	+	+			+	+	+	+	+	AT806002000810AA	BX80602L5520	5500, 5520
L5518	Nehalem-EP	Q1'09	4 / 8	2.13 GHz	8 MB	5 GT/s DMI	45 nm	60 W	Yes	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602002265AB		5500, 5520
L5508	Nehalem-EP	Q1'09	2 / 4	2.00 GHz	8 MB	5 GT/s DMI	45 nm	38 W	Yes	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602002697AC		5500, 5520
L5506	Nehalem-EP	Q1'09	4 / 4	2.13 GHz	4 MB	4.80 GT/s QPI	45 nm	60 W	No	2	FCLGA1366			+			+	+	+	+	+	AT80602002712AA	BX80602L5506	5500, 5520
EC5549	Jasper Forest	Q1'10	4 / 8	2.56 GHz	8 MB	5 GT/s DMI	45 nm	85 W	Yes	2	FCLGA1366	+	+	+	+			+	+	+	+	AT80612005712AB		3420
EC5539	Jasper Forest	Q1'10	2 / 2	2.27 GHz	4 MB	5 GT/s DMI	45 nm	65 W	Yes	2	FCLGA1366			+	+			+	+	+	+	AT80612003861AB		3420
EC5509	Jasper Forest	Q1'10	4 / 4	2.00 GHz	8 MB	4.8 GT/s QPI	45 nm	85 W	Yes	2	FCLGA1366			+	+			+	+	+	+	AT80612004740AA		3420
EC3539	Jasper Forest	Q1'10	4 / 4	2.13 GHz	8 MB	2.5 GT/s DMI	45 nm	65 W	Yes	1	FCLGA1366			+	+			+	+	+	+	AT80612003090AA		3420
E5649	Westmere-EP	Q1'11	6 / 12	2.53 GHz	12 MB	5.86 GT/s QPI	32 nm	80 W	No		FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614006783AB	BX80614E5649	
E5645	Westmere-EP	Q1'10	6 / 12	2.40 GHz	12 MB	5.86 GT/s QPI	32 nm	80 W	Yes	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614003597AC	BX80614E5645	5520
E5640	Westmere-EP	Q1'10	4 / 8	2.66 GHz	12 MB	5.86 GT/s QPI	32 nm	80 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005466AA	BX80614E5640	
E5630	Westmere-EP	Q1'10	4 / 8	2.53 GHz	12 MB	5.86 GT/s QPI	32 nm	80 W	No	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005463AA	BX80614E5630	
E5620	Westmere-EP	Q1'10	4 / 8	2.40 GHz	12 MB	5.86 GT/s QPI	32 nm	80 W	Yes	2	FCLGA1366	+	+	+	+	+	+	+	+	+	+	AT80614005073AB	BX80614E5620	5520
E5607	Westmere-EP	Q1'11	4 / 4	2.26 GHz	8 MB	4.80 GT/s QPI	32 nm	80 W	No	2	FCLGA1366			+	+	+	+	+	+	+	+	AT80614006789AA	BX80614E5607	
E5606	Westmere-EP	Q1'11	4 / 4	2.13 GHz	8 MB	4.80 GT/s QPI	32 nm	80 W	No	2	FCLGA1366			+	+	+	+	+	+	+	+	AT80614007290AE	BX80614E5606	
E5603	Westmere-EP	Q1'11	4 / 4	1.60 GHz	4 MB	4.80 GT/s QPI	32 nm	80 W	No	2	FCLGA1366			+	+	+	+	+	+	+	+	AT80614006954AA	BX80614E5603	
E5540	Nehalem-EP	Q1'09	4 / 8	2.53 GHz	8 MB	5.86 GT/s QPI	45 nm	80 W	Yes	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602000789AA	BX80602E5540	5500, 5520
E5530	Nehalem-EP	Q1'09	4 / 8	2.40 GHz	8 MB	5.86 GT/s QPI	45 nm	80 W	No	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602000792AA	BX80602E5530	5500, 5520
E5520	Nehalem-EP	Q1'09	4 / 8	2.26 GHz	8 MB	5.86 GT/s QPI	45 nm	80 W	No	2	FCLGA1366	+	+	+			+	+	+	+	+	AT80602002091AA	BX80602E5520	5500, 5520
E5507	Nehalem-EP	Q1'10	4 / 4	2.26 GHz	4 MB	4.80 GT/s QPI	45 nm	80 W	No		FCLGA1366			+			+	+	+	+	+	AT80602000795AA	BX80602E5507	5500, 5520
E5506	Nehalem-EP	Q1'09	4 / 4	2.13 GHz	4 MB	4.80 GT/s QPI	45 nm	80 W	No	2	FCLGA1366			+			+	+	+	+	+	AT80602000798AA	BX80602E5506	5500, 5520
E5504	Nehalem-EP	Q1'09	4 / 4	2.00 GHz	4 MB	4.80 GT/s QPI	45 nm	80 W	Yes	2	FCLGA1366			+			+	+	+	+	+	AT80602000801AA	BX80602E5504	5500, 5520
E5503	Nehalem-EP	Q1'10	2 / 2	2.00 GHz	4 MB	4.80 GT/s QPI	45 nm	80 W	No		FCLGA1366			+			+	+	+	+	+	AT80602003636AA	BX80602E5503	5500, 5520
E5502	Nehalem-EP	Q1'09	2 / 2	1.86 GHz	4 MB	4.80 GT/s QPI	45 nm	80 W	No	2	FCLGA1366			+			+	+	+	+	+	AT80602000804AA	BX80602E5502	5500, 5520

Intel® Server Processors & Chipsets

Intel® Xeon Phi™ Coprocessors, Intel® Itanium® Processor (Server), Intel® Atom™ Processor for Storage & Intel® Atom™ Processor for Server

Processor Number	Code Name	Release	# of Cores	Clock Speed	Cache	Expansion Options	Litho-graphy	"Max	Max Memory	Ordering Code	Ordering Information
TDP"											
7120X	Knights Corner	Q2'13	61	1.238 GHz	16 GB	PCIe v2.0	22 nm	300 W	16 GB	SC7120X	PCIe Card, No Thermal Solution
7120P	Knights Corner	Q2'13	61	1.238 GHz	16 GB	PCIe v2.0	22 nm	300 W	16 GB	SC7120P	PCIe Card, Passively Cooled
5120D	Knights Corner	Q2'13	60	1.053 MHz	8 GB	PCIe v2.0	22 nm	245 W	8 GB	SC5120D	Dense Form, No Thermal Solution
5110P	Knights Corner	Q2'13	60	1.053 MHz	8 GB	PCIe v2.0	22 nm	225 W	8 GB	SC5110P	PCIe Card, Passively Cooled
3120P	Knights Corner	Q2'13	57	1.100 GHz	6 GB	PCIe v2.0	22 nm	300 W	6 GB	SC3120P	PCIe Card, Passively Cooled
3120A	Knights Corner	Q2'13	57	1.100 GHz	6 GB	PCIe v2.0	22 nm	300 W	6 GB	SC3120A	PCIe Card, Actively Cooled

Processor Number	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus	Litho-graphy	Max TDP	Embedded Option	ECC Memory Sup	Graphics	# PCIe Lanes	Socket	Turbo	HT	VT-x	VT-d	VT-i	Sstep	DBS	TMT	XDB	EPT	Tray Part #	Compatible Chipset
INTEL® ITANIUM® PROCESSOR (SERVER)																									
9560	Poulson	Q4'12	8 / 16	2.53 GHz	32 MB	6.4 GT/s QPI	32 nm	170 W	No	Yes	No		LGA1248	+	+	+	+	+	+			+	+	CM8063101049806	
9550	Poulson	Q4'12	4 / 8	2.40 GHz	32 MB	6.4 GT/s QPI	32 nm	170 W	No	Yes	No		LGA1248	+	+	+	+	+	+			+	+	CM8063101049807	
9540	Poulson	Q4'12	8 / 16	2.13 GHz	24 MB	6.4 GT/s QPI	32 nm	170 W	No	Yes	No		LGA1248	+	+	+	+	+	+			+	+	CM8063101049718	
9520	Poulson	Q4'12	4 / 8	1.73 GHz	20 MB	6.4 GT/s QPI	32 nm	130 W	No	Yes	No		LGA1248	+	+	+	+	+	+			+	+	CM8063101049716	
9340	Tukwila	Q1'10	4 / 8	1.60 GHz	20 MB	4.80 GT/s QPI		185 W	No				FCLGA1248	+	+	+	+			+	+	+		LW80603003240AA	7500
9150N	Montvale	Q4'07	2 / 2	1.60 GHz	24 MB	533 MHz FSB	90 nm	104 W	No				PPGA611		+	+				+				NE80567KE025015	E8870
9150M	Montvale	Q4'07	2 / 2	1.66 GHz	24MB	667 MHz FSB	90 nm	104 W	No				PPGA611		+	+				+				NE80567KF028015	E8870
9140N	Montvale	Q4'07	2 / 2	1.60 GHz	18 MB	533 MHz FSB	90 nm	104 W	No				PPGA611		+	+				+				NE80567KE025009	E8870
9140M	Montvale	Q4'07	2 / 2	1.66 GHz	18 MB	667 MHz FSB	90 nm	104 W	No				PPGA611		+	+				+				NE80567KF028009	E8870
9130M	Montvale	Q4'07	2 / 2	1.66 GHz	8 MB	667 MHz FSB	90 nm	104 W	No				PPGA611			+								NE80567KF0288M	E8870
9120N	Montvale	Q4'07	2 / 2	1.42 GHz	12 MB	533 MHz FSB	90 nm	104 W	No				PPGA611		+	+								NE80567KEB17003	E8870
9110N	Montvale	Q4'07	1 / 1	1.60 GHz	12 MB	533 MHz FSB	90 nm	75 W	No				PPGA611			+								NE80567KE025003	E8870
INTEL® ATOM™ PROCESSOR FOR SERVER																									
S1260	Centerton	Q4'12	2 / 4	2.00 GHz	1 MB		32 nm	8.5 W	No	Yes		8	FCBGA1283		+	+								DH80S1260	
S1240	Centerton	Q4'12	2 / 4	1.60 GHz	1 MB		32 nm	6.1 W	No	Yes		8	FCBGA1283		+	+								DH80S1240	
S1220	Centerton	Q4'12	2 / 4	1.60 GHz	1 MB		32 nm	8.1 W	No	Yes		8	FCBGA1283		+	+								DH80S1220	
C2750	Avoton	Q3'13	8 / 8	2.40 GHz	4 MB		22 nm	20 W	No	Yes		16	FCBGA1283	+		+								FH8065401488906	
C2730	Avoton	Q3'13	8 / 8	1.70 GHz	4 MB		22 nm	12 W	No	Yes		8	FCBGA1283	+		+								FH8065401488919	
C2550	Avoton	Q3'13	8 / 8	2.40 GHz	2 MB		22 nm	14 W	No	Yes		16	FCBGA1283	+		+								FH8065401488912	
C2530	Avoton	Q3'13	8 / 8	1.70 GHz	2 MB		22 nm	9 W	No	Yes		8	FCBGA1283	+		+								FH8065401488915	
C2350	Avoton	Q3'13	8 / 8	1.70 GHz	1 MB		22 nm	6 W	No	Yes		4	FCBGA1283	+		+								FH8065401488914	

Intel® Server Motherboards

Single Socket, Compute Modules, & 4-Socket Server Boards

													Expansion Options										I/O Specifications											
Model	Code Name	Release	EOL Date	Board Form Factor	Chassis Form Factor	Socket	Max CPU	Embedded Option	Max TDP	# of DIMMs	Max Memory	Integ Grphx	# PCIe Lanes	PCIe Gen3 x4	PCIe Gen3 x8	PCIe Gen3 x16	IO Exp Gen3 x8	PCIe Gen2 x4	PCIe Gen2 x8	IO Exp Gen2 x4	IO Exp Gen2 x8	PCIe Gen1 x1	IO Exp Gen1 x4	# USB	# of eSATA	# SATA	RAID	# Serial	Integrated LAN	# LAN	# SAS	USB SSD	Single Part #	OEM Pack Part # BB = Bulk 10 pack DB = Disty 5 pack	Chipset
SINGLE SOCKET SERVER BOARDS																																		
S1600JP4	Jackson Pass	Q4'12	Q4'17	Custom (6.8" x 13.8")	Rack	Socket R	1	Yes	135 W	8	256 GB	Yes	40			2						1	7		10	up to s/w RAID 5	1	4x 1GbE	4	4			BBS1600JP4	C602
S1600JP2	Jackson Pass	Q3'12	Q4'17	Custom (6.8" x 13.8')'	Rack	Socket R	1	Yes	135 W	8	256 GB	Yes	40			2						1	7		10	up to s/w RAID 5	1	2x 1GbE	2	4			BBS1600JP2	C602
S1400SP4	Salmon Pass	Q3'12	Q3'17	SSI ATX (12" x 9.6")	Rack	Socket B2	1	Yes	95 W	6	96 GB	Yes			1		1			1				6	8		s/w 0/1/10/5	2	2x 1GbE	2		Yes		DBS1400SP4	
S1400SP2	Salmon Pass	Q3'12	Q3'17	SSI ATX (12" x 9.6")	Rack	Socket B2	1	Yes	95 W	6	96 GB	Yes			1		1			1				6	7		s/w 0/1/10/5	2	2x 1GbE	2		Yes		DBS1400SP2	
S1400FP4	Freemont Pass	Q3'12	Q3'15	SSI ATX (12" x 9.6")	Rack or Pedestal	Socket B2	1	No	95 W	6	96 GB	Yes		1	1	1	1					1		13		6	s/w 0/1/10/5	2	4x 1GbE	4		Yes		DBS1400FP4	
S1400FP2	Freemont Pass	Q3'12	Q3'15	SSI ATX (12" x 9.6")	Rack or Pedestal	Socket B2	1	No	95 W	6	96 GB	Yes		1	1	1					1			4	8		s/w 0/1/10/5	2	2x 1GbE	2		Yes		BBS1400FP2 DBS1400FP2	
S1200V3RPS	Rainbow Pass	Q2'13	1H'15	µATX	Pedestal	LGA1150	1	No	95 W	4	32 GB	Yes	16		1			1	1					4		6	0,1,10,5	1	2x 1GbE	2		Yes		DBS1200V3RPS	
S1200V3RPO	Rainbow Pass	Q2'13	1H'15	µATX	Rack	LGA1150	1	No	95 W	4	32 GB	Yes	16		1			1	1					4		6	0,1,10,5	1	2x 1GbE	2		Yes		BBS1200V3RPO DBS1200V3RPO	
S1200V3RPM	Rainbow Pass	Q2'13	1H'17	µATX	Rack	LGA1150	1	Yes	95 W	4	32 GB	Yes	16		1			1	1					4		6	0,1,10,5	1	2x 1GbE	2		Yes		BBS1200V3RPM DBS1200V3RPM	
S1200V3RPL	Rainbow Pass	Q2'13	1H'17	µATX	Pedestal	LGA1150	1	Yes	95 W	4	32 GB	Yes	16		1			1	1					4		6	0,1,10,5	1	2x 1GbE	2		Yes		BBS1200V3RPL DBS1200V3RPL	
S1200KPR	Kenosha Pass	Q2'12	1H'14	miniITX		LGA1155	1	No	95 W	2	16 GB	Yes				1								4		4			2x 1GbE	2				BBS1200KPR DBS1200KPR	
S1200BTSR	Beartooth Pass	Q2'12	2H'14	µATX	Rack or Pedestal	LGA1155	1	No		4	32 GB	Yes	4					1	2					7		6	0,1,10,5	1	2x 1GbE	2			S1200BTSR	BBS1200BTSR DBS1200BTSR	C204
S1200BTLRM	Beartooth Pass	Q2'12	2H'14	ATX	Rack or Pedestal	LGA1155	1	No		4	32 GB	Yes	4					3	1		1			9		6	s/w 0/1/10/5	2	2x 1GbE	2			S1200BTLRM		C204
S1200BTLR	Beartooth Pass	Q2'11	2H'14	ATX	Rack or Pedestal	LGA1155	1	No		4	32 GB	Yes	4					3	1					9		6	0,1,10,5	2	2x 1GbE	2			S1200BTLR	BBS1200BTLR DBS1200BTLR	C204
INTEL® COMPUTE MODULES																																		
MFS5520VIR	Victor Island	Q2'09	1H 2013	1U	Rack or Pedestal	LGA1366	2		95 W	12	192 GB	Yes												4			0,1,1E,5,6,10,50,60		GbE	2			MFS5520VIR	3 Pack: MFS5520VIBR	5520
MFS2600KI	LOD: 11/01/13	Q3'12	Q2'13	1U, custom	Pedestal	Socket R	2	No	95 W	16	250 GB	Yes							1					4			0,1,1E,5,6,10,50,60			2		Yes	MFS2600KI		C602
HNS2600WPQ	Washington Pass	Q1'12	Q3'17		Rack	Socket R	2	No	135 W	16	512 GB	Yes				1	1							5		6	up to s/w 5	1	2x 1GbE	2	4	No	HNS2600WPQ		C602
HNS2600WPF	Washington Pass	Q2'12	Q2'17		Rack	Socket R	2	No	135 W	16	512 GB	Yes				1	1							5		6	up to s/w 5	1	2x 1GbE	2	4	No	HNS2600WPF		C602
HNS2600WP	Washington Pass	Q2'12	Q3'17		Rack	Socket R	2	No	135 W	16	512 GB	Yes				1	1							5		6	up to s/w 5	1	2x 1GbE	2	4	No	HNS2600WP		C602
HNS2600JFQ	Jefferson Pass	Q1'12	Q2'17		Rack	Socket R	2	No	135 W	8	256 GB	Yes				1	1							5		6	up to s/w 5	1	2x 1GbE	2	4	No	HNS2600JFQ		C602
HNS2600JFF	Jefferson Pass	Q1'12	Q2'17		Rack	Socket R	2	No	135 W	8	256 GB	Yes				1	1							5		6	up to s/w 5	1	2x 1GbE	2	4	No	HNS2600JFF		C602
HNS2600JF	Jefferson Pass	Q1'12	Q2'17		Rack	Socket R	2	No	135 W	8	256 GB	Yes				1	1							5		6	up to s/w 5	1	2x 1GbE	2	4	No	HNS2600JF		C602
HNS2600LPQ	Lincoln Pass	Q2'12	Q3'17	Custom (6.8" x 16.6")	Rack	Socket B2	2	No	95 W	12	384 GB	Yes	16	0	2	0	1							2		5	up to s/w 5	1	2x 1GbE	2		No	HNS2600LPQ	BBS2400LPQ	C602
HNS2400LPF	Lincoln Pass	Q2'12	Q3'17		Rack	Socket B2	2	No	95 W	12	384 GB	Yes			1		1							2		5	up to s/w 5	1	2x 1GbE	2		No	TBD		C602
HNS2400LP	Lincoln Pass	Q2'12	Q3'17		Rack	Socket B2	2	No	95 W	12	384 GB	Yes				1	1							2		5	up to s/w 5	1	2x 1GbE	2		No	HNS2400LP		C602
INTEL® 4-SOCKET SERVER BOARDS																																		
S4600LT2	Lizard Head Pass	Q1'13	Q1'16	Custom (16.7" x 20")	Rack	Socket R	4	Yes	130 W	48	1500 GB	Yes	128			6	2							6	0	10	up to s/w 5	1	2x 1GbE	2	8	Yes	S4600LT2		C602
S4600LH2	Lizard Head Pass	Q1'13	Q1'16	Custom (16.7" x 20")	Rack	Socket R	4	Yes	130 W	48	1500 GB	Yes	128			6	2							6		10	up to s/w 5	1	2x 1GbE	2	8	Yes	S4600LH2		C602

Intel® Server Motherboards

Dual Socket Server Boards

														Expansion Options												I/O Specifications - # of Ports										
Model	Code Name	Release	EOL Date	Board Form Factor	Chassis Form Factor	Socket	Max CPU	Embedded Option	Max TDP	# of DIMMs	Max Memory	Integ Grphx	# PCI Express Lanes	PCIe Gen3 x4	PCIe Gen3 x8	PCIe Gen3 x16	IO Exp Gen3 x8	PCIe Gen2 x4	PCIe Gen2 x8	PCIe Gen2 x16	IO Exp Gen2 x4	IO Exp Gen2 x8	PCIe Gen1 x1	PCIe Gen1 x8	IO Exp Gen1 x4	# USB	# SATA	RAID	# Serial	Integrated LAN	# LAN	# SAS	Embedded USB SSD	Single Part #	OEM Pack Part # BB = Bulk 10 pack DB = Disty 5 pack
DUAL SOCKET SERVER BOARDS																																				
S5520URT	Urbanna	Q1'09	Q4'13	SSI TEB-leveraged (12" x 13")	Rack	LGA1366	2	Yes	130 W	12	192 GB	Yes							3	1					1	5	6	0,1	2	Dual, GbE	2			S5520URT	
S5520UR	Urbanna	Q1'09	Q4'13	SSI TEB-leveraged (12" x 13")	Rack	LGA1366	2	Yes	130 W	12	192 GB	Yes							3	1					1	5	6	0,1	2	Dual, GbE	2				BB5520URR
S5520HCT	Hanlan Creek	Q1'10	Q1'14	SSI EEB (12" x 13")	Pedestal	LGA1366	2	No	130 W	12	192 GB	Yes							3	1				1		8	6	0,1	2	Dual, GbE	2			S5520HCT	
S5520HC	Hanlan Creek	Q1'09	Q4'13	SSI TEB-leveraged (12" x 13")	Pedestal	LGA1366	2	Yes	130 W	12	192 GB	Yes							3	1				1		4	6	0,1	2	Dual, GbE	2			S5520HCR	BB5520HC
S5500HCV	Hayden Valley	Q2'09	Q4'13	SSI EEB (12" x 13")	Pedestal	LGA1366	2	Yes	130 W	9	144 GB	Yes							2	1				1		8	6	0,1	2	Dual, GbE	2			S5500HCVR	BB5500HCVR
S2600CP2IOC	Canoe Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	135 W	16	512 GB	Yes			5	1										5	14	up to s/w 5	2	Dual, GbE	2	8	Yes		DBS2600CP2IOC
S2600CP4IOC	Canoe Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	135 W	16	512 GB	Yes			5	1										5	14	up to s/w 5	2	Quad, GbE	4	8	Yes		DBS2600CP4IOC
S2600CP2J	Canoe Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	135 W	16	512 GB	Yes			5	1										5	6	up to s/w 5	2	Dual, GbE	2		Yes		BBS2600CP2J
S2600WPQ	Washington Pass	Q1'12	Q3'15	Custom (6.8" x 18.9")	Rack	Socket R	2	No	135 W	8	500 GB	Yes	64			4	1									5	6	up to s/w 5	1	Dual, GbE	2				BBS2600WPQ
S2600WPF	Washington Pass	Q1'12	Q3'15	Custom (6.8" x 18.9")	Rack	Socket R	2	No	135 W	8	500 GB	Yes	64			4	1									5	6	up to s/w 5	1	Dual, GbE	2				BBS2600WPF
S2600WP	Washington Pass	Q1'12	Q3'15	Custom (6.8" x 18.9")	Rack	Socket R	2	No	135 W	8	500 GB	Yes	72		1	4	1									5	6	up to s/w 5	1	Dual, GbE	2	4			BBS2600WP
S2600JFQ	Jefferson Pass	Q1'12	Q2'15	Custom (6.42" x 17.7")	Rack	Socket R	2	No	135 W	8	250 GB	Yes	48			3	1									5	6	up to s/w 5	1	Dual, GbE	3	4			BBS2600JFQ
S2600JFF	Jefferson Pass	Q1'12	Q3'15	Custom (6.42" x 17.7")	Rack	Socket R	2	No	135 W	8	250 GB	Yes	48			3	1									5	6	up to s/w 5	1	Dual, GbE	2	4			BBS2600JFF
S2600JF	Jefferson Pass	Q1'12	Q2'15	Custom (6.42" x 17.7')'	Rack	Socket R	2	No	135 W	8	250 GB	Yes	48			3	1									5	6	up to s/w 5	1	Dual, GbE	2	4			BBS2600JF
S2600IP4	Iron Pass	Q1'12	Q1'17	Custom (14.2" x 15")	Rack or Pedestal	Socket R	2	Yes	135 W	16	500 GB	Yes			6	1	1	1								5	4	up to s/w 5	2	Quad, GbE	4	8	Yes	S2600IP4	
S2600GZ	Grizzly Pass	Q1'12	Q1'15	Custom (16.5" x 16.5")	Rack	FCLGA2011	2	Yes	130 W	24	768 GB	Yes					2			6			1			7	10	up to s/w 5	2	Quad, GbE	4		Yes	S2600GZ4	BBS2600GZ
S2600GL	Grizzly Pass	Q1'12	Q1'15	Custom (16.5" x 16.5")	Rack	FCLGA2011	2	Yes	130 W	16	500 GB	Yes					2			6			1			7	10	up to s/w 5	2	Quad, GbE	4		Yes	S2600GL4	BBS2600GL
S2600CP4	Canoe Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	130 W	16	500 GB	Yes			5	1										5	14	up to s/w 5	2	Quad, GbE	4	8	Yes	S2600CP4	BBS2600CP4
S2600CP2	Canoe Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	130 W	16	500 GB	Yes			5	1										5	14	up to s/w 5	2	Dual, GbE	2	8	Yes	S2600CP2	BBS2600CP2
S2600COEIOC	Copper Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	150 W	16	500 GB	Yes			1	4		1								5	10	up to s/w 5	2	Quad, GbE		8	Yes		DBS2600COEIOC
S2600COE	Copper Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	150 W	16	500 GB	Yes	84		1	4		1								5	10	up to s/w 5	2	Quad, GbE	4	8	Yes	S2600COE	BBS2600COE
S2600CO4	Copper Pass	Q1'12	Q1'17	SSI EEB (12" x 13")	Pedestal	Socket R	2	Yes	135 W	16	500 GB	Yes	84		1	4		1								5	10	up to s/w 5	2	Quad, GbE	4	4	Yes	S2600CO4	BBS2600CO4
S2400SC2	Swiftcurrent Pass	Q2'12	Q2'15	SSI CEB (12" x 10.5")	Rack or Pedestal	Socket B2	2	No	95 W	8	128 GB	Yes		1	1	1					1					4	6	s/w 0/1/10/5	2	2x 1GbE	2	0	Yes		BBS2400SC2 DBS2400SC2
S2400LP	Lincoln Pass	Q2'12	Q3'15	Custom (6.8" x 16.6")	Rack	Socket B2	2	No	95 W	12	384 GB	Yes	24	0	1	1	1									2	5	up to s/w 5	1	2x 1GbE	2		No		BBS2400LP
S2400GP2	Granite Pass	Q2'12	Q2'17	SSI EEB (12" x 13")	Pedestal	Socket B2	2	No	95 W	6	384 GB	Yes		2	1	2	1									4	6	s/w 0/1/10/5	2	2x 1GbE	2		Yes		BBS2400GP2 DBS2400GP2
S2400EP4	Eagle Pass	Q2'12	Q2'17	SSI CEB (12" x 10.5")	Rack	Socket B2	2	Yes	95 W	8	128 GB	Yes				1	1					1				4	2	s/w 0/1/10/5	1	4x 1GbE	4	0	No		DBS2400EP4
S2400EP2	Eagle Pass	Q2'12	Q2'17	SSI CEB (12" x 10.5")	Rack	Socket B2	2	Yes	95 W	8	128 GB	Yes				1	1					1				4	2	s/w 0/1/10/5	1	2x 1GbE	2	0	No		DBS2400EP2
S2400BB4	Black Bear Pass	Q3'12	Q3'15	Custom (13.5" x 13.5")	Rack	Socket B2	2	No	95 W	12	384 GB	Yes		0	6	2	0					1				3	2	up to s/w 5	2	4x 1GbE	4	8	Yes	S2400BB4	

Intel® Server Systems

1U Server Systems

																Expansion Options							I/O Specifications								
Model	Code Name	Launch	EOL Date	Limited 3-yr War	Chassis Dimensions	Socket	Power Supply	# Heatsinks / Incl	2.5" HDD Support	3.5" HDD Support	# of DIMMs	Max Memory	Int Gaphics	Max CPU	PCIe x8 Gen3	PCIe x16 Gen3	IO Exp x8 Gen3	Int IO x8 Exp Gen3	PCIe x8 Gen2	PCIe x16 Gen2	IO Exp x4 Gen1	# USB Ports	# SATA Ports	RAID	# Serial Ports	Integrated LAN	# LAN Ports	# Integrated SAS	Emb USB SSD	Ordering Part # (Add suffix "NA" for North-American Power Cable)
1U RACK SERVER SYSTEMS																														
SR1625URSASR	Urbanna	Q1'09	2H'13	Yes	1.7" x 16.93" x 27.95"	LGA1366	650 W	Yes	6 Hotswap		12	192 GB	Yes	2						1	1	5	6		2	Dual, GbE		8		SR1625URSASR
SR1625URR	Urbanna	Q1'09	2H'13	Yes	1.7" x 16.93" x 27.95"	LGA1366	650 W	Yes	6 Hotswap		12	192 GB	Yes	2						1	1	5	6		2	Dual, GbE	2			SR16255URR
SR1600URR	Urbanna	Q1'09	2H'13	Yes	1.7" x 16.93" x 27.25"	LGA1366	600 W	Yes		3 Fixed	12	192 GB	Yes	2						1	1	5	6		2	Dual, GbE				SR1600URR
SR1600URHSR	Urbanna	Q1'09	2H'13	Yes	1.7" x 16.93" x 27.25"	LGA1366	600 W	Yes		3 Hotswap	12	192 GB	Yes	2						1	1	5	6		2	Dual, GbE				SR1600URHSR
R1304SP4SHOC	Salmon Pass	Q3'12	Q3'17	Yes	1.7" x 17.2" x 21.8"	Socket B2	450 W	Yes	4 Hotswap	4 Hotswap	6	96 GB	Yes	1	1		1	1				13	14	0,1,5,10	2	Quad, GbE	4	0	Yes	R1304SP4SHOC
R1304SP2SHBN	Salmon Pass	Q4'12	Q3'17	Yes	1.7" x 17.2" x 21.8"	Socket B2	350 W	Yes	4 Hotswap	4 Hotswap	6	96 GB	Yes	1	1		1	1				13	14	0,1,5,10	2	Dual, GbE	2	0	Yes	R1304SP2SHBN
R1304SP2SFBN	Salmon Pass	Q4'12	Q3'17	Yes	1.7" x 17.2" x 21.8"	Socket B2	350 W	1 / Yes	4 Hotswap	4 Hotswap	6	96 GB	Yes	1	1		1	1				13	14	0,1,5,10	2	Dual, GbE	2	2	Yes	discontinued
R1304RPSSFBN	Rainbow Pass	Q2'13	Q3'18	Yes	17.24" x 21.8" x 1.75"	LGA1150	350 W	Yes	4 Fixed		4	32 GB	Yes	1	1		1	1				6	6	0,1,5,10	1	Dual 1GbE	2			R1304RPSSFBN
R1304RPOSHBN	Rainbow Pass	Q2'13	Q3'18	Yes	17.24" x 21.8" x 1.75"	LGA1150	350 W	Yes	4 Hotswap		4	32 GB	Yes	1	1		1	1				6	6	0,1,5,10	1	Dual 1GbE	2			R1304RPOSHBN
R1304RPMSHOR	Rainbow Pass	Q2'13	Q3'18	Yes	17.24" x 21.8" x 1.75"	LGA1150	450 W	Yes	4 Hotswap		4	32 GB	Yes	1	1		1	1				6	6	0,1,5,10	1	Dual 1GbE	2			R1304RPMSHOR
R1304JP4TC	Jackson Pass	Q4'12	Q1'18	Yes	1.75" x 17.2" x 24"	Socket R	450 W	1 / Yes	4 Hotswap	4 Hotswap	8	1024 GB	Yes	1	2	1	1					7	10	s/w 0,1,10 (5 opt)	1	Quad, GbE	4	4	No	R1304JP4TC
R1304JP4OC	Jackson Pass	Q4'12	Q1'18	Yes	1.75" x 17.2" x 24"	Socket R	450 W	1 / Yes	4 Hotswap	4 Hotswap	8	1024 GB	Yes	1	2	1	1					7	10	s/w 0,1,10 (5 opt)	1	Quad, GbE	4	4	No	R1304JP4OC
R1304JP4GS	Jackson Pass	Q4'12	Q1'18	Yes	1.75" x 17.2" x 24"	Socket R	750 W	1 / Yes	4 Hotswap	4 Hotswap	8	1024 GB	Yes	1		2	1					7	10	s/w 0,1,10 (5 opt)	1	Quad, GbE	4	4	No	R1304JP4GS
R1304GZ4GS9	Grizzly Pass	Q3'12		Yes	1.75" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	4 Hotswap	4 Hotswap	24	768 GB	Yes	2		2	1	1				5	10	0,1,10 (5 opt)	2	Quad, GbE	4	0	Yes	R1304GZ4GS9
R1304GZ4GC	Grizzly Pass	Q1'12	Q1'17	Yes	1.75" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	4 Hotswap	4 Hotswap	24	768 GB	Yes	2		2	2					5	10	0,1,10 (5 opt)	2	Quad, GbE	4	8	Yes	R1304GZ4GC
R1304GL4DS9	Grizzly Pass	Q3'12		Yes	1.75" x 16.93" x 27.95"	Socket R	460 W	2 / Yes	4 Hotswap	4 Hotswap	16	512 GB	Yes	2		1	1	1				5	10	0,1,10 (5 opt)	2	Quad, GbE	4	0	Yes	R1304GL4DS9
R1304EP2SHFN	Eagle Pass	Q3'12	Q2'17	Yes	1.7" x 17.2" x 21.8"	Socket B2	600 W	2 / Yes	4 Hotswap	4 Hotswap	8	128 GB	Yes	2		1	1	1				7	10	0,1,5,10	1	Dual, GbE	2	0	No	R1304EP2SHFN
R1304BTSSFANR	Beartooth Pass	Q2'12	1H'14	Yes	17.24 x 21.8 x 1.75	LGA1155	250 W	Yes	4 Fixed	4 Fixed	4	32 GB	Yes	1					1			7	6	0,1,5,10	2	Dual, GbE	2			R130RBTSSFANR
R1304BTLSHBNR	Beartooth Pass	Q2'12	1H'14	Yes	17.24 x 21.8 x 1.75	LGA1155	350 W	Yes	4 Hotswap	4 Hotswap	4	32 GB	Yes	1					1			9	6	0,1,5,10	2	Dual, GbE	2			R1304BTLSHBNR
R1304BTLSHBN	Beartooth Pass	Q2'11	1H'14	Yes	17.24 x 21.8 x 1.75	LGA1155	350 W	Yes	4 Hotswap	4 Hotswap	4	32 GB	Yes	1								9	6	0,1,5,10	2	Dual, GbE	2			ER1304BTLSHBNR
R1304BTLSFANR	Beartooth Pass	Q2'12	1H'14	Yes	17.24 x 21.8 x 1.75	LGA1155	250 W	Yes	4 Fixed	4 Fixed	4	32 GB	Yes	1					1			9	6	0,1,5,10	2	Dual, GbE	2			R1304BTLSFANR
R1304BB4GS9	Black Bear Pass	Q3'12	Q2'15	Yes	1.75" x 17.2" x 24.75"	Socket B2	750 W	2 / Yes	4 Hotswap	4 Hotswap	12	384 GB	Yes	2	1	1	1	1				7	10	s/w 0,1,10 (5 opt)	2	Quad, GbE	4		Yes	R1304BB4GS9
R1304BB4DC	Black Bear Pass	Q3'12	Q2'15	Yes	1.75" x 17.2" x 24.75"	Socket B2	460 W	2 / Yes	4 Hotswap	4 Hotswap	12	384 GB	Yes	2		1	1	1				7	10	s/w 0,1,10 (5 opt)	2	Quad, GbE	4	0	Yes	R1304BB4DC
R1208RPOSHOR	Rainbow Pass	Q2'13	Q1'19	Yes	17.24" x 21.8" x 1.75"	LGA1150	450 W	Yes	8 Hotswap		4	32 GB	Yes	1	1		1	1				6	6	0,1,5,10	1	Dual, GbE	2		Yes	R1208RPOSHOR
R1208RPMSHOR	Rainbow Pass	Q2'13	Q1'19	Yes	17.24" x 21.8" x 1.75"	LGA1150	450 W	Yes	8 Hotswap		4	32 GB	Yes	1	1		1	1				6	6	0,1,5,10	1	Dual, GbE	2		Yes	R1208RPMSHOR
R1208JP4TC	Jackson Pass	Q4'12	Q1'18	Yes	1.75" x 17.2" x 24"	Socket R	450 W	1 / Yes	4 Hotswap		8	1024 GB	Yes	1	2	1	1					7	10	s/w 0,1,10 (5 opt)	1	Quad, GbE	4	4	Yes	R1208JP4TC
R1208JP4OC	Jackson Pass	Q4'12	Q1'18	Yes	1.75" x 17.2" x 24"	Socket R	450 W	1 / Yes	8 Hotswap		8	1024 GB	Yes	1	2	1	1					7	10	s/w 0,1,10 (5 opt)	1	Quad, GbE	4	4	Yes	R1208JP4OC
R1208JP4GS	Jackson Pass	Q4'12	Q1'18	Yes	1.75" x 17.2" x 24"	Socket R	750 W	1 / Yes	8 Hotswap		8	1024 GB	Yes	1		1	1					7	10	s/w 0,1,10 (5 opt)	1	Quad, GbE	4	4	No	R1208JP4GS
R1208GZ4GS9	Grizzly Pass	Q3'12	Q2'15	Yes	1.75" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	4 Hotswap		24	768 GB	Yes	2		2	1	1				5	10	0,1,10 (5 opt)	2	Quad, GbE	4	0	Yes	R1208GZ4GS9
R1208GZ4GC	Grizzly Pass	Q1'12	Q1'17	Yes	1.75" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	8 Hotswap		24	768 GB	Yes	2		2	1	1				5	10	0,1,10 (5 opt)	2	Quad, GbE	4	0	Yes	R1208GZ4GC
R1208GL4DS	Grizzly Pass	Q1'12	Q1'15	Yes	1.75" x 16.93" x 27.95"	Socket R	460 W	2 / Yes	8 Hotswap		16	512 GB	Yes	2		2	2					5	10	0,1,10 (5 opt)	2	Quad, GbE	4	8	Yes	R1208GL4DS
R1208BB4GS9	Black Bear Pass	Q3'12	Q2'15	Yes	1.75" x 17.2" x 24.75"	Socket B2	750 W	2 / Yes	8 Hotswap		12	384 GB	Yes	2	1	1	1	1				7	10	s/w 0,1,10 (5 opt)	2	Quad, GbE	4		Yes	R1208BB4GS9
R1208BB4DC	Black Bear Pass	Q3'12	Q2'15	Yes	1.75" x 17.2" x 24.75"	Socket B2	460 W	2 / Yes	8 Hotswap		12	384 GB	Yes	2	1	1	1					7	10	0,1,10 (5 opt)	2	Quad, GbE	4	0	Yes	R1208BB4DC

Intel® Server Systems

2U Server Systems

																Expansion Options								I/O Specifications							
Model	Code Name	Launch	EOL Date	Limited 3-yr Warranty	Chassis Dimensions	Socket	Power Supply	# Heatsinks / Included	Backplane Included	HDD Support	# of DIMMs	Max Memory	Int Graphics	Max CPU	PCI 32/33	PCIe Gen3 x4	PCIe Gen3 x8	PCIe Gen3 x16	IO Exp Gen3 x8	PCIe Gen2 x4	PCIe Gen2 x8	IO Expansion Module	# USB Ports	# SATA Ports	RAID	# Serial Ports	Integrated LAN	# LAN Ports	# Integrated SAS	Emb USB SSD	Ordering Part #
2U RACK SERVER SYSTEMS																															
SR2625URLXT	Urbanna	Q1'09	1H'13	Yes	3.44" x 16.93" x 27.95"	LGA1366	750 W	Yes	Yes	Up to 8 hot-swap 2.5" SAS / SATA drives; 8 HDD carriers included	12	192 GB	Yes	2							5	1	5	6	upgr.	2	2x 1 GbE				SR2625URLXT
SR2625URLXR	Urbanna	Q1'09	1H'13	Yes	3.44" x 16.93" x 27.95"	LGA1366	750 W	Yes	Yes	Up to 8 hot-swap 2.5" SAS / SATA drives; 8 HDD carriers included	12	192 GB	Yes	2							5	1	5	6	upgr.	2	2x 1 GbE		8		SR2625URLXR
SR2625URBRPR	Urbanna	Q1'09	1H'13	Yes	3.44" x 16.93" x 27.95"	LGA1366	750 W	Yes	Yes	Up to 8 hot-swap 2.5" SATA drives; 6 HDD carriers included, requires FXX25HDDCAR accessory to support all 8	12	192 GB	Yes	2							3	1	5	6		2	2x 1 GbE	2			SR2625URBRPR
SR2600URSATAR	Urbanna	Q4'09	1H'13	Yes	3.44" x 16.93" x 27.95"	LGA1366	750 W	Yes	Yes	Up to 6 hot-swap 3.5" SAS / SATA drives; 5 HDD carriers included	12	192 GB	Yes	2							5	1	5	6		2	2x 1 GbE	2			SR2600URSATAR
SR2600URLXR	Urbanna	Q1'09	1H'13	Yes	3.44" x 16.93" x 27.95"	LGA1366	750 W	Yes	Yes	Up to 6 hot-swap 3.5" SAS / SATA drives	12	192 GB	Yes	2							5	1	5	6	upgr.	2	2x 1 GbE	2	8		SR2600URLXR
SR2600URBRPR	Urbanna	Q1'09	1H'13	Yes	3.44" x 16.93" x 27.95"	LGA1366	750 W	Yes	Yes	Up to 6 hot-swap 3.5" SATA drives	12	192 GB	Yes	2							3	1	5	6		2	2x 1 GbE	2			SR2600URBRPR
R2312SC2SHGR	Swiftcurrent Pass	Q4'12	Q3'15	Yes	3.5" x 17.2" x 24.75"	Socket B2	750 W	2 / Yes	Yes	Up to 12 hot-swap 2.5" or 3.5" drives	8	128 GB	Yes	2	1	1	1	1		1			10	14	sw 0,1,5,10	2	2x 1 GbE	2	0	Yes	R2312SC2SHGR
R2312IP4LHPC	Iron Pass	Q1'12	Q1'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 12 hot-swap 2.5" or 3.5" drives	16	500 GB	Yes	2			6	1	2	1			5	10	sw 0,1,5,10	2	4x 1 GbE	4	8	Yes	R2312IP4LHPC
R2312GZ4GS9	Grizzly Pass	Q4'12	Q1'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 12 hot-swap 2.5" or 3.5" drives	24	768 GB	Yes	2			6	2	1	1			5	10	sw 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2312GZ4GS9
R2312GZ4GC4	Grizzly Pass	Q2'12	Q2'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 12 hot-swap 2.5" or 3.5" drives	24	768 GB	Yes	2			6	2	1	1			5	10	sw 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2312GZ4GC4
R2312GL4GS	Grizzly Pass	Q1'12	Q1'15	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 12 hot-swap 2.5" or 3.5" drives	16	512 GB	Yes	2			6	1	2				5	10	sw 0,1,10 (5 opt)	2	4x 1 GbE	4	8	Yes	R2312GL4GS
R2312BB4GS9	Black Bear Pass	Q3'12	Q2'15	Yes	3.5" x 17.2" x 24.75"	Socket B2	750 W	2 / Yes	Yes	Up to 12 hot-swap 2.5" or 3.5" drives	12	384 GB	Yes	2		2	4		1	1			7	10	sw 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2312BB4GS9
R2308SC2SHFN	Swiftcurrent Pass	Q3'12	Q3'15	Yes	3.5" x 17.2" x 24.75"	Socket B2	600 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" or 3.5" drives	8	128 GB	Yes	2	1	1	1	1		1			10	14	sw 0,1,10,5	2	2x 1 GbE	2	0	Yes	R2308SC2SHFN
R2308IP4LHPC	Iron Pass	Q1'12	Q1'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" or 3.5" drives	16	500 GB	Yes	2			6	1	2	1			5	10	sw 0,1,10 (5 opt)	2	4x 1 GbE	4	8	Yes	R2308IP4LHPC
R2308GZ4GS9	Grizzly Pass	Q4'12	Q1'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" or 3.5" drives	24	768 GB	Yes	2			6	2	1				5	10	sw 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2308GZ4GS9
R2308GZ4GC	Grizzly Pass	Q1'12	Q1'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" or 3.5" drives	24	768 GB	Yes	2			6	2	2				5	10	s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	8	Yes	R2308GZ4GC
R2308GL4GS	Grizzly Pass	Q1'12	Q1'15	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" or 3.5" drives	16	768 GB	Yes	2			6	2	2				5	10	s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	8	Yes	R2308GL4GS
R2308BB4GC	Black Bear Pass	Q3'12	Q2'15	Yes	3.5" x 17.2" x 24.75"	Socket B2	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" or 3.5" drives	12	384 GB	Yes	2		2	4		1				7	10	s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2308BB4GC
R2304LH2HKC	Lizard Head Pass	Q3'12	Q2'17	Yes	3.43" x 17.24" x 28"	Socket R	1600 W	2 / Yes	Yes	Up to 4 hot-swap 2.5" or 3.5" drives	48	1500 GB	Yes	4				6	2				6	6	s/w 0,1,10 (5 opt)	1	2x 1 GbE	2	4	Yes	R2304LH2HKC
R2224GZ4GC4	Grizzly Pass	Q2'12	Q2'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 24 hot-swap 2.5" drives	24	768 GB	Yes	2			6		1				4	10	s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	2224GZ4GC4
R2216GZ4GC	Grizzly Pass	Q1'12	Q1'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 16 hot-swap 2.5" drives	24	768 GB	Yes	2			6	2	2				5	10	s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	8	Yes	R2216GZ4GC
R2208LT2HKC4	Lizard Head Pass	Q3'12	Q2'17	Yes	3.43" x 17.24" x 28"	Socket R	1600 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" drives	48	1500 GB	Yes	4				6	2				6	10	s/w 0,1,10 (5 opt)	1	2x 1 GbE	2	8	Yes	R2208LT2HKC4
R2208IP4LHPC	Iron Pass	Q1'12		Yes	3.44" x 16.93" x 27.95"	Socket R	750 W, Enterprise	2 / Yes	Yes	Up to 8 hot-swap 2.5" drives	16	512 GB	Yes	2			3	4		1		1			s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	8	Yes	R2208IP4LHPC
R2208GZ4GS9	Grizzly Pass	Q3'12	Q2'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" drives	24	768 GB	Yes	2			6		1				6	10	s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2208GZ4GS9
R2208GZ4GC	Grizzly Pass	Q1'12	Q1'17	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" drives	24	768 GB	Yes	2			6		1				6	10	s/w 0,1,10 (5 opt)	2	4x 1 GbE	4	8	Yes	R2208GZ4GC
R2208BB4GS9	Black Bear Pass	Q3'12	Q2'15	Yes	3.5" x 17.2" x 24.75"	Socket B2	750 W	2 / Yes	Yes	Up to 8 hot-swap 2.5" drives	12	384 GB	Yes	2		2	4		1				7	10	S/W 0,1,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2208BB4GS9
R2208GL4GS	Grizzly Pass	Q1'12	2015	Yes	3.44" x 16.93" x 27.95"	Socket R	750 W, Platinum	2 / Yes	Yes	Up to 8 hot-swap 2.5" drives	16	512 GB	Yes	2			6		1				6	10	S/W RAID 1,0,10 (5 opt)	2	4x 1 GbE	4	0	Yes	R2208GL4GS
H2312WPQJR	Washington Pass	Q1'12	Q1'13	Yes	3.5" x 17.2" x 30.5"	Socket R	1200 W, Platinum	8 / Yes	Yes	Supports 12 hot-swap 3.5" or 2.5" SATA 3G drives, SAS 3G with activation key/discrete controller	64	2048 GB	Yes	2				4	4				20	20	S/W RAID 1,0,10 (5 opt)	4	8x 1 GbE	8	12	No	H2312WPQJR
H2312JFQJR	Jefferson Pass	Q1'12	Q1'13	Yes	3.5" x 17.2" x 30.5"	Socket R	1200 W, Platinum	8 / Yes	Yes	Supports 12 hot-swap 3.5" or 2.5" SATA 3G drives, SAS 3G with activation key/discrete controller	32	1024 GB	Yes	2				4	4				20	20	S/W RAID 1,0,10 (5 opt)	4	8x 1 GbE	8	12	No	H2312JFQJR
H2312JFKR	Jefferson Pass	Q3'12	Q4'17	Yes	3.5" x 17.2" x 30.5"	Socket R	1600 W, Platinum	8 / Yes	Yes	Supports 12 hot-swap 3.5" or 2.5" SATA 3G drives, SAS 3G with activation key/discrete controller	32	1024 GB	Yes	2				4	4				20	20	S/W RAID 1,0,10 (5 opt)	4	8x 1 GbE	8	12	No	H2312JFKR
H2216WPJR	Washington Pass	Q1'12	Q1'13	Yes	3.5" x 17.2" x 29.5"	Socket R	1200 W, Platinum	8 / Yes	Yes	Supports 12 hot-swap 3.5" or 2.5" SATA 3G drives, SAS 3G with activation key/discrete controller	64	2048 GB	Yes	4				4	4				20	24	S/W RAID 1,0,10 (5 opt)	4	8x 1 GbE	8	16	No	H2216WPJR

Intel® Server Systems

2U Storage Systems

										Expansion Options										I/O Specifications								
Model	Launch	Limited 3-yr Warranty	Chassis Dimensions	Power Supply	# of P/S	Redundant P/S	Redundant Fans	2.5" HDD Support	Backplanes	PCI 32/33	PCIe x4 Gen3	PCIe x8 Gen3	PCIe x16 Gen3	IO Exp x8 Gen3	Int IO Exp x8 Gen3	PCIe x4 Gen2	PCIe x8 Gen2	IO Exp x4 Gen1	PCIe x8 Gen1	# USB Ports	# SATA Ports	RAID	# Serial Ports	Integrated LAN	# LAN Ports	# Integrated SAS	Emb USB SSD	Ordering Part #
2U RACK STORAGE SYSTEMS																												
JBOD2312S2SP	Q1'13	Yes	3.44" x 16.93" x 24.95"	460 W	1	Yes	Yes	12 x 3.5" hot-swap	Incl.																			JBOD2312S2SP
JBOD2224S2SP	Q3'13	Yes	3.44" x 16.93" x 24.95"	460 W	1	Yes	Yes	24 x 2.5" hot-swap Incl.	Incl.																			TBD
JBOD2224S2DP	Q1'13	Yes	3.44" x 16.93" x 24.95"	460 W	2	Yes	Yes	24 x 2.5" hot-swap Incl.	Incl.																			JBOD2224S2DP

4U and 6U Server Systems

													Expansion Options											I/O Specifications								
Model	Code Name	Launch	EOL Date	Limited 3-yr Warranty	Chassis Dimensions	Socket	Power Supply	# of Heatsinks	Heatsink Included	2.5" HDD Support	3.5" HDD Support	# of DIMMs	Max Memory	Int Graphics	Max CPU	PCI 32/33	PCIe x4 Gen3	PCIe x8 Gen3	PCIe x16 Gen3	IO Expansion Mod	Int IO Exp x8 Gen3	PCIe x4 Gen2	PCIe x8 Gen2	PCIex16 Gen2	PCIe x8 Gen1	# USB Ports	# SATA Ports	RAID	# Serial Ports	Integrated LAN	# LAN Ports	# Integrated SAS	Emb USB SSD	Ordering Part # (Add suffix "NA" for North-American Power Cable)
4U RACK OR PEDESTAL SERVER SYSTEMS																																	
P4308SC2MHGC	Swiftcurrent Pass	Q2'12	Q2'15	Yes	6.81" x 24.9" x 17.24"	Socket B2	750 W	2	Yes	8 Hotswap	8 Hotswap	8	128 GB	Yes	2	1	1	1	1			1				10	14	sw 0,1,10,5	2	Dual, Gbe	2	0	Yes	P4308SC2MHGC
P4308RPLSHDR	Rainbow Pass	Q2'13		Yes	17.24" x 21.5" x 6.81"	LGA1150	460 W		Yes	8 Hotswap	8 Hotswap	4	32 GB	Yes	1			1		1		1	1			6	6	0, 1, 5, 10	1	Dual, Gbe	2		Yes	P4308RPLSHDR
P4308IP4LHJC	Iron Pass	Q1'12	Q1'17	Yes	6.81" x 17.24"x 26.9"	Socket R	1200 W		Yes		8 Hotswap	16	500 GB	Yes	2			6	1	2		1				5	10	up to sw 5	2	Quad, Gbe	4	8	Yes	P4308IP4LHJC
P4308CP4MHGC	Canoe Pass	Q1'12	Q1'17	Yes	6.81" x 17.24" x 24.9"	Socket R	750 W		Yes	8 Hotswap	8 Hotswap	16	500 GB	Yes	2			5	1							5	14	0,1,10 (5 opt)	2	Quad, Gbe	4	8	Yes	P4308CP4MHGC
P4308CP4MHEN	Canoe Pass	Q1'12	Q1'17	Yes	6.81" x 17.24" x 24.9"	Socket R	550 W		Yes	8 Hotswap	8 Hotswap	16	500 GB	Yes	2			5	1							5	14	0,1,10 (5 opt)	2	Quad, Gbe	4	8	Yes	P4308CP4MHEN
P4304SC2SFEN	Swiftcurrent Pass	Q2'12	Q2'15	Yes	6.81" x 21.5" x 17.24"	Socket B2	550 W	2	Yes	4 Fixed	4 Fixed	8	128 GB	Yes	2	1	1	1	1			1				10	14	sw 0,1,10,5	2	Dual, Gbe	2	0	Yes	P4304SC2SFEN
P4304BTSSFCNR	Beartooth Pass	Q2'12	1H'14	Yes	6.9" x 17.24" x 21.5"	LGA1155	365 W	1	No	4 Fixed	4 Fixed	4	32 GB	Yes	1	1						1	1	1		7	6		2	Dual, Gbe	2	0		P4304BTSSFCNR
P4304BTLSHCNR	Beartooth Pass	Q2'12	1H'14	Yes	17.24" x 21.5" x 6.9"	LGA1155	365 W		No	4 Hotswap	4 Hotswap	4	32 GB	Yes	1	1							3	1		9	6		2	Dual, Gbe	2			P4304BTLSHCNR
P4304BTLSFCNR	Beartooth Pass	Q2'12	1H'14	Yes	17.24" x 21.5" x 6.9"	LGA1155	365 W		No	4 Fixed	4 Fixed	4	32 GB		1	1							3	1		9	6		2	Dual, Gbe	2			P4304BTLSFCNR
P4216IP4LHJC	Iron Pass	Q1'12	Q1'17	Yes	6.81" x 17.24"x 26.9"	Socket R	1200 W		Yes	16 Hotswap		16	500 GB	Yes	2			6	1	2		1				5	10	up to sw 5	2	Quad, Gbe	4	8	Yes	P4216IP4LHJC
6U PEDESTAL (RACKABLE) SERVER SYSTEMS																																	
SC5650HCBRPR	Hanlan Creek	Q4'09	2H'13	Yes	17.8" x 9.256" x 19"	LGA1366	600 W		No	Up to 6 hot-swap 3.5" SAS / SATA drives with RAID controller		12	192 GB	Yes	2					1			3	1	1	6	6	upg.	2	Dual, Gbe	2			SC5650HCBRPR

Intel® Server Heatsink Options

Product Name	Launch Date	Description	Includes	Server - Chassis Compatibility
1U HEAT SINK OPTIONS				
FXXEA91X91HS	Q1'12	1U Heat Sink	(2) 91.5 x 91.5 mm passive Extruded Al heatsink	S2600JF, S2600GL
FXXEA90X90HS	Q2'12	1U Heat Sink	(2) 90 x 90 mm 1U passive Extruded Al heatsink	S1400SP, S2400LP, S22400EP, S2400BB
FXXEA84X106HS	Q2'12	1U Heat Sink	(2) 84 x 106 mm 1U passive Extruded Al heatsink	S2600WP
FXXCA91X91HS	Q1'12	1U Heat Sink	(2) 91.5 x 91.5 mm 1U passive Cu/Al heatsink	S2600JF
FXXCA90X90HS	Q2'12	1U Heat Sink	(2) 90 x 90 mm 1U passive Cu/Al heatsink	S2400LP
FXXCA84X106HS	Q1'12	1U Heat Sink	(2) 84 x 106 mm 1U passive Cu/Al heatsink	S2600WP, S1600JP, S4600LH
FXXRGTHS	Q1'09	Tower Heat Sink		SC5600LX
FEA90X902UHS	Q2'12	1U Heat Sink	(1) Heat Sink (Aluminum)	S2400SC2 - R2000M Chassis
BXSTS200PNRW	Q1'12	Passive Narrow Thermal Solution	(1) Narrow copper heatsink, for 24-DIMM board	S2600GZ
BXSTS100P		Passive Thermal Solution	with Ducted Airflow	SR1630BCR, SR2625URLXT, SR1600URR, SR1600URHSR, SR1625URR, SR1625URSASR, SR1695WBAC, SR1695WBDC, SR1690WBR
AXXCA90X902UHS	Q2'12	Passive Heat Sink		S2400SC, S1400FP - P4000 Chassis
ABPSRCACP	Q1'12	Spare Passive CPU Heatsink	Cu-Al, 91.5 x 91.5 mm, Passive Heat Sinks	S2600IP - R2000 Chassis
AUPSRCBTA	Q1'12	Heat Sink	(2) 98 x 100 mm Active Heat Sinks	S2600COE, S2600COEIOC - P4000M Chassis
AUPSRCBTP	Q1'12	Spare Passive CPU Heatsink (2-pack)	(2) 98 x 100 mm Passive Heat Sinks	S2600CP, S2600IP, S2600CO - P4000 Chassis

Intel® Server Chassis'

2U & 4U Server Chassis'

Model	Code Name	Launch	EOL Date / Last Order Date (LOD)	Power Supply	Redundant Power Supply (Efficiency)	Cooling	Limited 3-yr Warranty	HDD Support	Max CPU	Heatsink Included	Backplanes Included	Ordering Part #
2U RACK SERVER CHASSIS												
H2312XXKR	Bobcat Peak	Q3'12	Q4'15	1600 W	Platinum	no redundant fans	Yes	12 x 3.5" or 2.5" hot-swap drives	8	No	Yes	H2312XXKR
H2216XXKR	Bobcat Peak	Q3'12	Q4'15	1600 W	Platinum	no redundant fans	Yes	16 x 2.5" hot-swap drives			Yes	H2216XXKR
4U RACK OR PEDESTAL SERVER CHASSIS												
P4308XXMHGN	Union Peak	Q1'12	Q1'15	750 W	750 W	2 x 120 mm fixed fans	Yes	8 x 3.5" hot-swap drive carriers	2	No	Yes	P4308XXMHGN
P4308XXMHGC	Union Peak	Q1'12	Q1'15	750 W	750 W	2 x 120 mm fixed fans	Yes	8 x 3.5" hot-swap drive carriers	2	No	Yes	P4308XXMHGC
P4308XXMHEN	Union Peak	Q1'12	Q1'15	550 W	No	2 x 120 mm fixed fans	Yes	8 x 3.5" hot-swap drive carriers	2	No	Yes	P4308XXMHEN
P4308XXMHDR	Union Peak	Q1'12	Q1'15	460 W	460 W	2 x 120 mm fixed fans	Yes	8 x 3.5" hot-swap drive carriers	2	No	Yes	P4308XXMHDR
P4308XXMFEN	Union Peak	Q1'12	Q1'15	550 W	No	2 x 120 mm fixed fans	Yes	8 x 3.5" fixed drive carriers	2	No	No	P4308XXMFEN
P4304XXSHDR	Union Peak	Q1'12	Q1'15	460 W	460 W	2 x 92 mm fixed fans	Yes	4 x 3.5" hot-swap drive carriers	2	No	Yes	P4304XXSHDR
P4304XXSHCN	Union Peak	Q1'11		365 W	80+ Silver		Yes	4 x 3.5" fixed drive sleds	1	No	Yes	P4304XXSHCN
P4304XXSFEN	Union Peak	Q1'12	Q1'15	550 W	No	2 x 92 mm fixed fans	Yes	4 x 3.5" fixed drive sleds	2	No	No	P4304XXSFEN
P4304XXSFCN	Union Peak	Q1'11		365 W	80+ Silver		Yes	4 x 3.5" fixed drive sleds	1	No	Yes	P4304XXSFCN
P4216XXMHJC	Union Peak	Q1'12	Q1'15	1200 W	1200 W	Redundant cooling	Yes	16 x 2.5" hot-swap drive carriers	2	No	Yes	P4216XXMHJC
P4216XXMHGC	Union Peak	Q1'12	Q1'15	750 W	750 W	2 x 120 mm fixed fans	Yes	16 x 2.5" hot-swap drive carriers	2	No	Yes	P4216XXMHGC
P4208XXMHGC	Union Peak	Q1'12	Q1'15	750 W	750 W	Redundant cooling	Yes	8 x 2.5" hot-swap drive carriers	2	No	Yes	P4208XXMHGC

5U & 6U Server Chassis'

Model	Code Name	Launch	EOL Date	Power Supply	Redundant Power Supply (Efficiency)	Cooling	Limited 3-yr Warranty	HDD Support	Max CPU	Intrusion Switch assembly	Front panel cable	USB cable	Cable for 2 add'l SATA power connectors	COM2 cable	Ordering Part #
5U PEDESTAL (RACKABLE) SERVER CHASSIS															
SC5600LX	Riggins-T	Q1'09	1H'12 part still active	750 W	not incl	4 x redundant hotswap cooling fans with ducting	Yes	Supports up to 10 (6+4) fixed or hot-swap 3.5" SAS / SATA drives; 6 HDD carriers included	2			1	1	1	SC5600LX
SC5600BRP	Riggins-T	Q1'09	1H'12 part still active	750 W	not incl	3 x redundant fixed cooling fans with ducting	Yes	Supports up to 10 (6+4) fixed or hot-swap 3.5" SAS / SATA drives; 6 HDD carriers included	2	1	1	1	1	1	SC5600BRP
SC5600BASE	Riggins-T	Q1'09	1H'12 part still active	670 W	No	3 x redundant fixed cooling fans with ducting	Yes	6 x 3.5" fixed drive carriers	2	1	1	1	1		SC5600BASE
6U PEDESTAL (RACKABLE) SERVER CHASSIS															
MFSYS25V2	EOL 11/01/13	Q1'11	1H'14	1000 W	not incl	2 x power supply fans	Yes	14 x 2.5" hot-swap drive carriers	2						MFSYS25V2

Intel® Server Chassis' / Motherboard Compatibility Table

	2U Rack Server Chassis		4U Pedestal Server Chassis				4U Rack or Pedestal Server Chassis								5U Pedestal (Rackable) Server Chassis		
Model	**H2312XXJR**	**H2216XXJR**	**P4304XXSHCN**	**P4304XXSFCN**	**P4304XXSHDR**	**P4304XXSFEN**	**P4308XXMHGN**	**P4308XXMHGC**	**P4308XXMHEN**	**P4308XXMHDR**	**P4308XXMFEN**	**P4216XXMHJC**	**P4216XXMHGC**	**P4208XXMHGC**	**SC5600LX**	**SC5600BRP**	**SC5600BASE**
S12BTL			+	+													
S1200BTS				+													
S3420GPV																	
S3420GPLX																	
S3420GPLC																	
S5520HCT																	
S5520HC															+	+	+
S5500HCV															+	+	+
S5500BC															+	+	+
S2600CP2							+	+	+	+	+	+	+	+			
S2600CP4							+	+	+	+	+	+	+	+			
S2600CO4							+	+	+	+	+	+	+	+			
S2600COE							+	+	+	+	+	+	+	+			
S2600CP2IOC							+	+	+	+	+	+	+	+			
S2600CP4IOC							+	+	+	+	+	+	+	+			
S2600COEIOC							+	+	+	+	+	+	+	+			
S2600CP2J					+	+	+	+	+	+	+	+	+	+			
S2400LP	+	+															
S2400LPQ	+	+															

Intel® Server Accessories

Intel® Server Accessories & Spares

Part #	Product	Launch Date	Product Type	Includes	Compatible Products
CABLES					
FPWRCABLENA	North America Power Cable	Q2'06	Spare	(1) North America Power Cable	All Intel® Server Systems & Intel® Server Chassis
AXXCBL500MSMS	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 500 mm length, straight SFF-8087 to SFF-8087 connectors.	R2208GZ4GC, R2216GZ4GC, R2308GZ4GC, R2208GL4GS, R2308GL4GS, R2312GL4GS, R2312GZ4GCSAS, R2224IP4LHPC, R2216IP4LHPC, R2312IP4LHPC, R4224IP4LHKC, P4216IP4LHKC, P4216IP4LHJC, P4208IP4LHGC, P4308IP4LHKC, P4308IP4LHJC, P4308IP4LHGC, R2216GZ4GCLX, R2208IP4LHPC, R2308IP4LHPC, P4308IP4LHJCL, R2224GZ4GC4, R2312GZ4GC4, R2308GL4DS9, R2208GL4DS9, R2208GZ4GS9, R2308GZ4GS9, R2312GZ4GS9
AXXCBL1030MR7R	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 1030 mm length, right-angle SFF-8087 to right angle 7-pin SATA connectors.	R1304GZ4GC, R1304GL4DS9
AXXCBL165MSMS	Cable Kit	Q2'12	Accessory	(1) Kit of 2 cables 165 mm length, straight SFF-8087 to SFF-8087 connectors.	R2224IP4LHPC, R2216IP4LHPC, R2312IP4LHPC, P4224IP4LHKC, P4216IP4LHKC, P4216IP4LHJC, P4208IP4LHGC, P4308IP4LHKC, P4308IP4LHJC, P4308IP4LHGC, R2208IP4LHPC, R2308IP4LHPC, P4308IP4LHJCL
AXXCBL185MSMS	Cable Kit	Q2'12	Accessory	(1) Kit of 2 cables 185 mm length, straight SFF-8087 to SFF-8087 connectors.	P4208IP4LHGC, P4216IP4LHJC, P4216IP4LHKC, P4224IP4LHKC, P4308IP4LHGC, P4308IP4LHJC, P4308IP4LHJCL, P4308IP4LHKC, R2208IP4LHPC, R2216IP4LHPC, R2224IP4LHPC, R2308GL4DS9, R2308GL4GS, R2308GZ4GC, R2308GZ4GS9, R2308IP4LHPC, R2312GL4GS, R2312GZ4GC4, R2312GZ4GCSAS, R2312GZ4GS9, R2312IP4LHPC
AXXCBL245MSMS	Cable Kit	Q2'12	Accessory	(1) Kit of 2 cables 245 mm length, straight SFF-8087 to SFF-8087 connectors.	S2600IP4, S2600IP4L, R2224IP4LHPC, R2216IP4LHPC, R2312IP4LHPC, P4224IP4LHKC, P4216IP4LHKC, P4216IP4LHJC, P4208IP4LHGC, P4308IP4LHKC, P4308IP4LHJC, P4308IP4LHGC, R2208IP4LHPC, R2308IP4LHPC, P4308IP4LHJCL
AXXCBL550MRMR	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 550 mm length, right angle SFF-8087 to right angle SFF-8087 connectors.	R1208GZ4GC, R1208GL4DS, R1208GZ4GCSAS, R1208GZ4GS9
AXXCBL585MSMR	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 585 mm length, straight SFF-8087 to right angle SFF-8087 connectors.	R1208GZ4GC, R1208GL4DS, R1208GZ4GCSAS, R1208GZ4GS9
AXXCBL600MSMS	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 600 mm length, straight SFF-8087 to SFF-8087 connectors.	R2208GZ4GC, R2216GZ4GC, R2308GZ4GC, R2208GL4GS, R2308GL4GS, R2312GL4GS, R2312GZ4GCSAS, R2216GZ4GCLX, R2224GZ4GC4, R2312GZ4GC4, R2308GL4DS9, R2208GL4DS9, R2208GZ4GS9, R2308GZ4GS9, R2312GZ4GS9
AXXCBL650MSMS	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 650 mm length, straight SFF-8087 to SFF-8087 connectors.	Systems: R2208GZ4GC, R2216GZ4GC, R2308GZ4GC, R2208GL4GS, R2308GL4GS, R2312GL4GS, R2312GZ4GCSAS, R2224IP4LHPC, R2216IP4LHPC, R2312IP4LHPC, P4224IP4LHKC, P4216IP4LHKC, P4216IP4LHJC, P4208IP4LHGC, P4308IP4LHKC, P4308IP4LHJC, P4308IP4LHGC, R2216GZ4GCLX, R2208IP4LHPC, R2308IP4LHPC, P4308IP4LHJCL, R2224GZ4GC4, R2312GZ4GC4, R2308GL4DS9, R2208GL4DS9, R2208GZ4GS9, R2308GZ4GS9, R2312GZ4GS9. SSD Cache Controllers: RCS25ZB040, RCS25ZB040LX
AXXCBL730MRMR	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 730 mm length, right angle SFF-8087 to right angle SFF-8087 connectors.	R1208GZ4GC, R1208GL4DS, R1208GZ4GCSAS, R1208GZ4GS9
AXXCBL730MSMS	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 730 mm length, straight SFF-8087 to SFF-8087 connectors.	R1208GZ4GC, R1208GL4DS, R1208GZ4GCSAS, R1208GZ4GS9
AXXCBL770MSMR	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 770 mm length, straight SFF-8087 to right angle SFF-8087 connectors.	R1208GZ4GC, R1208GL4DS, R1208GZ4GCSAS, R1208GZ4GS9
AXXCBL850MS7R	Cable Kit	Q1'12	Accessory	(1) Kit of 2 cables, 850 mm length, straight SFF-8087 to right angle 7-pin SATA connectors.	R1304GZ4GC, R1304GL4DS9
AXXRJ45DB92	RJ45 To DB9 Cable Kit	Q1'09	Accessory	(2) serial cable converter dongles (RJ45 to DB9) - one for DSD, one for DCD (modem), one serial ribbon cable for cabling 2nd serial port	SR1550, SR2500, SC5299BRP, SC5650DP, SC5600BASE, SC5650UP, SR1500, SC5650BRP, SC5299DP, SC5600BRP, SC5600LX, SR2500ALBRPR, SR1500ALR, SR1550ALSASR, SR2500ALLXR, SC5650BCDPR, SC5650HCBRPR, SR2625URLXR, SR2625URLXT, SR2625URBRPR, SR1600URR, SR1600URHSR, SR1625URR, SR1625URSASR, SR2600URBRPR, SR2600URLXR, SR2600URSATAR, SR1630GPRX, SR1630HGPRX, SR1690WBR
AXXSR16XXRAIDCA	Mini-SAS cable	Q3'10	Accessory	(1) Mini-SAS cable for Intel RAID add-in cards	SR1695WBAC, SR1695GPRX1AC, SR1695GPRX2AC, SR1695WBDC, SR1690WBR
ASR2612SASCBL	Mini SAS Cable Accessory Kit	Q1'09	Accessory	(1) Mini-SAS Cable Accessory Kit	SR2612URR
AXXIOMKIT	IO Module Cable Kit	Q1'13	Accessory	Flex cable, brackets and screws.	S2600IP, S4600LH
FXXSCVDCBL	Internal Video Cable to External VGA Port Kit	Q1'09	Accessory	(1) Internal video cable to external VGA port	SC5650SCWS
AXXCBL880SATA	880 mm SATA ODD cable		Accessory	(1) 880 mm SATA cable for OOD. Orderable in packs of 10.	R1304GZ4GC, R1208GZ4GC, R1208GL4DS, R1208GZ4GCSAS, R2208GZ4GC, R2216GZ4GC, R2308GZ4GC, R2208GL4GS, R2308GL4GS, R1304BB4DC, R1208BB4DC, R2208BB4GC, R2216BB4GC, R2308BB4GC, R2216GZ4GCLX, R2208BB4GS9, R1304BB4GS9, R1208BB4GS9, R2000BB4GS9, R1304GL4DS9, R2308GL4DS9, R2208GL4DS9, R1208GZ4GS9, R1304GZ4GS9, R2208GZ4GS9, R2308GZ4GS9
POWER SUPPLIES					
FXXRIGT670WPSU	670 W Power Supply	Q1'09	Spare	(1) 670 W Power Supply	SC5600BASE
FXXPPT600WPSU	600 W Power Supply	Q1'09	Spare	(1) 600 W Power Supply	SC5650DP, SC5650BCDPR
FXX750PCRPS	750 W Common Redundant Power Supply	Q1'12	Spare	(1) 750 W Cold Redundant Power Supply spare (80 Plus Platinum efficiency)	P4000, R1000, and R2000 server chassis
FXX750GERPS	Spare 750 W Hot-Swap Power Supply	Q1'12	Spare	(1) Spare 750 W redundant power supply FXX750GERPS (1U Form Factor, Gold-Efficiency)	Systems: R2224IP4LHPC, RSS16IP4LHPC, R2312IP4HPC,R2208IP4LHPC, R2308IP4LHPC. Boards: S2600IP in R2000 chassis
FXX460GCRPS	460 W Common Redundant Power Supply	Q1'12	Spare	(1) Spare 460 W Common Redundnat Power Supply (Gold-Efficiency, 80+)	P4208CP4MHGC, P4304SC2SHDR, P4308CP4MHEN, P4308CP4MHGC, R1208xxx series, R1304xxx series, R2000BB4GS9, R2208xxx series, R2216xxx series, R2224BB4GCSAS, R2224GZ4GCSAS, R2308xxx series, R2312xxx series. Chassis: P4208xxx series, P4216xxx series, P4304xxx series, P4308xxx series.

Intel® Server Accessories & Spares (Cont.)

Part #	Product	Launch Date	Product Type	Includes	Compatible Products
POWER SUPPLIES					
FXX400PSU	400 W High Efficiency Power Supply	Q1'06	Spare	(1) 400 W High-Efficiency Power Supply	SC5650UP
FXX1600PCRPS	1600 W Common Redundant Power Supply	Q1'12	Spare	(1) 750 W Cold Redundant Power Supply spare (80+ Platinum efficiency)	P4000, R1000, and R2000 server chassis
FXX1200PCRPS	1200 W Common Redundant Power Supply		Spare	(1) Spare 1200 W Common Redundant Power Supply (Platinum-Efficiency)	Systems: H2216xxx series, H2312xxx series Chassis: P4208xxx series, P4216xxx series, P4224IP4LHKC, P4304XXMHEN, P4308xxx series
FUP550SNRPS	550 W Power Supply	Q1'12	Spare	(1) Spare 550 W Non-Redundant Power Supply (Silver-Efficiency)	P4000 Chassis Family
FUP365SNRPS	365 W Power Supply	Q2'11	Spare	(1) 365 W non-redundant Power Supply Spare (80 Plus Silver)	P4000S Ped Chassis
FTH450WPS	450 W AC Power Supply	Q3'10	Spare	(1) 450 W AC Power Supply	SR1640TH, SR1695WBAC
FSR2612PS	760 W Hot-Swap Power Supply Module	Q1'09	Spare	(1) 760 W Hot-Swap Power Supply	SR2612URR
FSR1695GPRXPS	400 W Power Supply	Q3'10	Spare	(1) 400 W AC redundant PSU	SR1695GPRX1AC, SR1695PRX2AC
FSR1690PS	650 W Power Supply	Q1'09	Spare	(1) 650 W Power Supply	SR1690WBR
FSR1600PS	600 W Power Supply Module	Q1'09	Spare	(1) 600 W Power Supply	SR1600URR
FR1000PS350	350 W Power Supply	Q2'11	Spare	(1) 350 W Power Supply Spare	SR1630GPRX, R1304BTLSHBN, SR1630HGPRX, R1304BTLSHBNR
FR1000PS250	250 W Power Supply	Q2'11	Spare	(1) 250 W Power Supply Spare	R1304BTLSFAN, R1304BTSSFAN, R1304BTLSFANR, R1304BTSSFANR
FHJT400WPS	400 W High Efficiency Power Supply	Q1'09	Spare	(1) 400 W High-Efficiency Power Supply	SR1630BCR
FHJ350WPS	350 W Power Supply	Q3'09	Spare	(1) 350 W Power Supply	SR1530HSH, SR1530SH, SR1630GP, SR1630HGP
F1U450WPSU	System Power Supply	Q4'12	Spare	(1) 450 W AC miniERP 80 Gold efficiency power supply	R1304JP4OC, R1208JP4OC, R1208JP4TC
PEDESTAL TO RACK CONVERSION KITS					
APP3RACKIT	Pedestal to Rack Conversion Kits	Q1'06	Spare	Rack rails and hardware for rack installation	SC5299BRP, SC5650DP, SC5299UP, SC5650UP, SC5650BRP, SC5299DP, SC5650BCDPR, SC5650HCBRPR
ARIGRACK	Pedestal to Rack Conversion Kits	Q2'06	Spare	Hinge cover; rack handles, intrusion switch jumper, new rail kit assembly, rack hardware kit, icon label, installation guide	SC5400BASE, SC5600BASE, SC5400BRP, SC5400LX, SC5400LXI, SC5600BRP, SC5600LX

Intel® Server RAID

Intel® RAID Controllers, Integrated RAID (Modules/System Boards) & RAID Expanders

Model #	Code Name	Release	EOL Date	Board Form Factor	Data Transfer Rate	Supported Devices	Compatible Battery Backup	RAID Level Supported	# of Internal Ports	# of External Ports	# of Supported Devices	Embedded Memory	PCIe Host Interface	Part #
RAID CONTROLLERS														
RCS25ZB040LX		Q1'13	1H'16	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRMFBU3	0,1,5,6,10,50,60	4	0	128	1 GB + 1 TB	PCIe 3.0 x8	RCS25ZB040LX
RCS25ZB040		Q1'13	1H'16	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRMFBU3	0,1,5,6,10,50,60	4	0	128	1 GB + 256 GB	PCIe 3.0 x8	RCS25ZB040
RT3WB080		Q4'10	1H'15	Low-Profile MD2	6 Gb/s	SATA	AXXRSBBU7 / 8	0,1, 5, 6, 10, 50, 60	8	0	32	256 MB	PCIe 2.0 x8	RT3WB080
RS3WC080	Waimea	Q3'13	1H'17	Low-Profile MD2	12 Gb/s	SAS / SATA		0,1,5,10,50	8	0	128		PCIe 3.0 x8	RS3WC080
RS3UC080	Umbrella Canyon	Q3'13	1H'17	Low-Profile MD2	12 Gb/s	SAS / SATA		0,1,1E,10,JBOD	8	0	244		PCIe 3.0 x8	RS3UC080
RS3GC008	Guadalupe Canyon	Q3'13	1H'17	Low-Profile MD2	12 Gb/s	SAS / SATA		0,1,1E,10,JBOD	0	8	244		PCIe 3.0 x8	RS3GC008
RS3FC044	Fall Canyon	Q3'13	1H'17	Low-Profile MD2	12 Gb/s	SAS / SATA		0,1,1E,10,JBOD	4	4	244		PCIe 3.0 x8	RS3FC044
RS3DC080	Dark Canyon	Q3'13	1H'17	Low-Profile MD2	12 Gb/s	SAS / SATA		0,1, 5, 6, 10, 50, 60	8		128	1 GB	PCIe 3.0 x8	RS3DC080
RS3DC040	Dark Canyon	Q3'13	1H'17	Low-Profile MD2	12 Gb/s	SAS / SATA		0,1, 5, 6, 10, 50, 60	4		128	1 GB DDR3	PCIe 3.0 x8	RS3DC040
RS2WG160	Walnut Grove	Q4'10	1H'14	Full-Height	6 Gb/s	SAS / SATA	AXXRSBBU7 / 8	0,1,5,6,10,50,60	16	0	240	512 MB	PCIe 2.0 x8	RS2WG160
RS2WC080	Whale Cove	Q4'10	2H'14	Low-Profile MD2	6 Gb/s	SAS / SATA	None	0,1,5,10,50	8	0	16	none	PCIe 2.0 x8	RS2WC080
RS2WC040	Whale Cove	Q4'10	2H'14	Low-Profile MD2	6 Gb/s	SAS / SATA	None	0,1,5,10,50	4	0	16	none	PCIe 2.0 x8	RS2WC040
RS2VB080		Q1'12	1H'15	Low-Profile MD2	6 Gb/s	SAS / SATA	MFBU Included	0,1,5,6,10,50,60	8		128	512 MB	PCIe 2.0 x8	RS2VB080
RS2VB040		Q1'12	1H'15	Low-Profile MD2	6 Gb/s	SAS / SATA	MFBU Included	0,1,5,6,10,50,60	4		128	512 MB	PCIe 2.0 x8	RS2VB040
RS2SG244	Sierra Grande	Q4'10	1H'14	Full-Height	6 Gb/s	SAS / SATA	AXXRSBBU7 / 8	0,1,5,6,10,50,60	24	4	240	512 MB	PCIe 2.0 x8	RS2SG244
RS2PI008	Puget Island	Q4'10	Q4'12	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRSBBU7 / 8	0,1,5,6,10,50,60	0	8	240	512 MB	PCIe 2.0 x8	RS2PI008
RS2MB044	Mobile Bay	Q4'10	Q4'14	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRSBBU7 / 8	0,1,5,6,10,50,60	4	4	240	512 MB	PCIe 2.0 x8	RS2MB044
RS2BL080	Big Laurel	Q2'11	Q2'15	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRSBBU7 / 8	0,1,5,6,10,50,60	8	0	32	512 MB	PCIe 2.0 x8	RS2BL080
RS2BL040	Big Laurel	Q1'11	Q1'16	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRSBBU7 / 8	0,1,5,6,10,50,60	4	0	16	512 MB	PCIe 2.0 x8	RS2BL040
RS25SB008	Sonoma Beach	Q1'12	1H'16	Low-Profile MD2	6 Gb/s	SAS / SATA	MFBU Included	0,1,5,6,10,50,60	0	8	240	1 GB	PCIe 3.0 x8	RS25SB008
RS25NB008		Q3'11	Q1'16	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRSBBU9	0,1,5,6,10,50,60	0	8	128	1 GB	PCIe 2.0 x8	RS25NB008
RS25GB008		Q3'11	Q1'16	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRSBBU9	0,1,5,6,10,50,60	0	8	128	1 GB	PCIe 2.0 x8	RS25GB008
RS25FB044	Flagler Beach	Q4'12	1H'16	Low-Profile MD2	6 Gb/s	SAS / SATA	None	0,1,1E,10,JBOD	4	4	256	none	PCIe 3.0 x8	RS25FB044
RS25DB080		Q1'11	Q1'16	Low-Profile MD2	6 Gb/s	SAS / SATA	AXXRSBBU9	0,1,5,6,10,50,60	8	0	128	1 GB	PCIe 2.0 x8	RS25DB080
RS25AB080		Q1'12	1H'16	Low-Profile MD2	6 Gb/s	SAS / SATA	MFBU Included	0,1,5,6,10,50,60	8	0	128	1 GB	PCIe 2.0 x8	RS25AB080
INTEL® INTEGRATED SERVER RAID MODULE														
AXXSASIOMOD		Q3'10		Module	3 Gb/s	SAS / SATA							Integrated I/O Exp	AXXSASIOMOD
AXXRMS2MH080		Q1'10	1H'14	1U Capable Module	6 Gb/s	SAS / SATA	AXXRSBBU7 / 8	0,1,5,6,10,50,60	8		32	512 MB	Integrated I/O Exp	AXXRMS2MH080
AXXRMS2LL080		Q1'10	1H'14	1U Capable Module	6 Gb/s	SAS / SATA		0,1,1E	8		32		Integrated I/O Exp	AXXRMS2LL080
AXXRMS2LL040		Q4'10	1H'14	1U Capable Module	6 Gb/s	SAS / SATA		0,1,1E	4		32		Integrated I/O Exp	AXXRMS2LL040
AXXRMS2AF080		Q4'10	1H'14	1U Capable Module	6 Gb/s	SAS / SATA		0,1,5,10,50	8		32		Integrated I/O Exp	AXXRMS2AF080
AXXRMS2AF040		Q4'10	1H'14	1U Capable Module	6 Gb/s	SAS / SATA		0,1,5,10,50	4		32		Integrated I/O Exp	AXXRMS2AF040
AXX4SASMOD		Q4'10	Q4'12	1U Capable Module	6 Gb/s	SAS / SATA		0,1,1E,10			120		PCIe 1.0 x4	AXX4SASMOD
RMT3PB080	Pompano Beach	Q1'12	2H'14	PCIe Module	6 Gb/s	SATA only	BBU9 / MFBU2	0,1,5,6,10,50,60	8		16	512 MB	PCIe 2.0 x8	RMT3PB080
RMT3CB080	Condado Beach	Q1'12	2H'14	SIO Module	6 Gb/s	SATA only	BBU9 / MFBU2	0,1,5,6,10,50,60	8		18	512 MB	PCIe 2.0 x8	RMT3CB080
RMS25PB080	Pompano Beach	Q1'12	2H'14	PCIe Module	6 Gb/s	SAS / SATA	BBU9 / MFBU2	0,1,5,6,10,50,60	8		128	1 GB	PCIe 2.0 x8	RMS25PB080
RMS25PB040	Pompano Beach	Q1'12	2H'14	PCIe Module	6 Gb/s	SAS / SATA	BBU9 / MFBU2	0,1,5,6,10,50,60	4		128	1 GB	PCIe 2.0 x8	RMS25PB040
RMS25KB080	Kohala Beach	Q1'12	2H'14	SIO Module	6 Gb/s	SAS / SATA	None	0,1,1E,10	8		128	n/a	PCIe 2.0 x8	RMS25KB080
RMS25KB040	Kohala Beach	Q1'12	2H'14	SIO Module	6 Gb/s	SAS / SATA	None	0,1,1E,10	4		128	n/a	PCIe 2.0 x8	RMS25KB040
RMS25JB080	Jackson Beach	Q1'12	2H'14	PCIe Module	6 Gb/s	SAS / SATA	None	0,1,1E,10	8		128	n/a	PCIe 2.0 x8	RMS25JB080
RMS25JB040	Jackson Beach	Q1'12	2H'14	PCIe Module	6 Gb/s	SAS / SATA	None	0,1,1E,10	4		128	n/a	PCIe 2.0 x8	RMS25JB040
RMS25CB080	Condado Beach	Q1'12	2H'14	SIO Module	6 Gb/s	SAS / SATA	BBU9 / MFBU2	0,1,5,6,10,50,60	8		128	1 GB	PCIe 2.0 x8	RMS25CB080
RMS25CB040	Condado Beach	Q1'12	2H'14	SIO Module	6 Gb/s	SAS / SATA	BBU9 / MFBU2	0,1,5,6,10,50,60	4		128	1 GB	PCIe 2.0 x8	RMS25CB040

Model #	Code Name	Release	EOL Date	Board Form Factor	Data Transfer Rate	Supported Devices	IO Processor Model	RAID Level Supported	# of Internal Ports	# of External Ports	# of Supported Devices	Embedded Memory	PCIe Host Interface	Part #
INTEL® RAID EXPANDERS														
RES2CV360	Scotch Valley	Q1'12	1H'17	Low-Profile MD2	6 Gb/s	SAS / SATA	LSI 6 Gb SAS2x36 expander	Dependent on paired RAID card	36	0				RES2CV360
RES2SV240	Scotch Valley	Q1'10	1H'17	Low-Profile MD2	6 Gb/s	SAS / SATA	LSI 6 Gb SAS2x24 expander	Dependent on paired RAID card	24	0			n/a	RES2SV240
RES2CV240	Scotch Valley	Q1'12	1H'17	Narrow System Bd	6 Gb/s	SAS / SATA	LSI 6 Gb SAS2x24 expander	Dependent on paired RAID card	24	0				RES2CV240
RES2SV240NC	Scotch Valley	Q4'11		Expander Card	6 Gb/s	SAS / SATA								RES2SV240NC

Intel® RAID Premium Features, Accessories & Backup

Product	Launch Date	EOL Date	Product Type	Part #	Description
INTEL® RAID PREMIUM FEATURES					
Intel® RAID Premium Feature Key AXXRPFKHA2	Q3'13	1H'16	Activation Key	AXXRPFKHA2	Intel RAID Activation Key HA2 allows two Intel RAID controllers to provide failover for a two servers in a cluster or shared storage environment.
Intel® RAID Drive Encryption Management	Q4'12	Q1'14	Activation Key	AXXRPFKDE AXXRPFKDE2	Upgrade Key to enable Drive Encryption Management for Intel RAID 6G ROC Products.
Intel® RAID Rapid Recovery Snapshot		Q4'12	Activation Key	AXXRPFKSNSH AXXRPFKSNSH2	Upgrade Key to enable Rapid Recovery Snapshot for Intel RAID 6G ROC Products.
Intel® RAID SSD Cache with Fast Path *I/O	Q4'12	Q1'16	Activation Key	AXXRPFKSSD AXXRPFKSSD2	Upgrade Key to enable SSD Cache with Fastpath I/O for Intel RAID 6G ROC Products.
INTEL® RAID ACCESSORIES					
Intel® RAID Converter Board RCVT8788	Q3'12	1H'16	MD2 PCIe Slot	AXXRCVT8788	The Intel® RAID Converter Board RCVT8788 allows for internal SAS or SATA ports to be extended outside the system. It includes 2 internal 8087 Mini-SAS connectors that are connected to two external 8088 Mini-SAS connectors.
Intel® RAID/SAS Cable Kit CBL740MS7P	Q3'11	Q4'13	RAID/SAS Cable Kit	AXXCBL740MS7P	Intel RAID/SAS Cable Kit CBL740MS7P provides two 740 mm cables with a four port Mini-SAS 8087 connector on one end and four 7-pin SATA style pins on the other end.
Intel® RAID Activation Key AXXRAKSAS2		Q4'12	Activation Key	AXXRAKSAS2	RAID Activation key enables full intelligent SAS HW RAID for the Intel Servers with a LSI1078-based active midplane.
Intel® RAID Activation Key AXXRAKSW5		Q4'13	Activation Key	AXXRAKSW5	RAID Activation Key enables SAS and/or SATA Software RAID 5 on most Intel Server Boards.
512 MB Mini DIMM Registered DDR2 for RAID Cache AXXMINIDIMM512	Q1'10	Q4'14	Memory	AXXMINIDIMM512	512 MB Mini DIMM registered DDR-2 for use with FALSASMP2
INTEL® RAID SMART BATTERIES					
AXXRSBBU9	Q2'11	1H'18	Battery	AXXRSBBU9	Intel® RAID Smart Battery AXXRSBBU9 provides optional battery backup for mainstream RS25 family RAID products.
AXXRSBBU8	Q1'11	Q1'17	Battery	AXXRSBBU8	Intel® RAID Smart Battery AXXRSBBU8 provides optional battery backup for mainstream RS2 family RAID products such as Intel RAID Controllers RS2BL080/040. It is also compatible with AXXROMBSASMR.
AXXRSBBU7	Q1'10	1H'17	Battery	AXXRSBBU7	Optional RAID Smart battery back up for use with Intel 6G SAS RAID controllers. Includes components for remote mounting.
AXXRSBBU6	Q1'10	1H'15	Battery	AXXRSBBU6	Optional RAID Smart battery back up provides 48 hours of cache data retention for use with Intel® RAID Controllers SRCSASBB8I and SRCSASLS4I. RoHS Complaint.
AXXRSBBU4	Q1'10	Q2'14	Battery	AXXRSBBU4	Optional RAID Smart battery back up Provides up to 48 hours of cache data retention for use with Intel® RAID Controllers SRCSASRB and SRCSATAWB. RoHS Complaint.
AXXRSBBU3	Q1'10	Q2'14	Battery	AXXRSBBU3	Optional RAID Smart battery back up for use with Intel RAID Controllers AXXRAK18E, SRCSAS144E, SRCSASJV. Active MidPlanes, and ROMBSASMR.
Maintenance Free Backup AXXRMFBU3	Q2'13	2H'17	SuperCap Package	AXXRSBBU3	Supercapacitor-based Maintenance Free Backup Unit helps protect cache in the event of a power failure or system crash. This module is designed for Intel RAID SSD Cache Controller RCS2ZB040. It does not support any other products.
Maintenance Free Backup AXXRMFBU2	Q1'12	1H'17	SuperCap Package	AXXRMFBU2	Maintenace Free Backup Unit for Intel Integrated RAID RMS25 & RMT3 families. Includes 1 maintenance free backup unit (supercapacitor module, NAND flash module, cables & bracket.

Intel® Embedded Processors

Intel® Desktop Processors (Embedded)

Processor #	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus Speed	Lithography	Max TDP	Integrated Graphics	Socket	OEM Tray Part #	Retail Boxed Part #
INTEL® CELERON® DESKTOP PROCESSOR												
P1053	Jasper Forest	Q1'10	1 / 2	1.33 GHz	2 MB	2.5 GT/s DMI	45 nm	30 W	No	FCLGA1366	AT80612004743AA	
G540	Sandy Bridge	Q3'11	2 / 2	2.50 GHz	2 MB	5 GT/s DMI	32 nm	65 W	Yes	FCLGA1155	CM8062301046804	BXC80623G540
G1620	Ivy Bridge	Q1'13	2 / 2	2.70 GHz	2 MB	5 GT/s DMI	22 nm	55 W	Yes	FCLGA1155	CM8063701445001	BX80637G1620
G1101	Clarkdale	Q1'10	2 / 2	2.26 GHz	2 MB	2.5 GT/s DMI	32 nm	73 W	Yes	FCLGA1155	CM80616004596AC	
E1500	Conroe	Q3'06	2 / 2	2.20 GHz	512 KB	800 MHz FSB	65 nm	65 W	No	LGA775	HH80557PG049D	
440	Conroe	Q3'06	1 / 1	2.00 GHz	512 KB	800 MHz FSB	65 nm	35 W	No	LGA775	HH80557RG041512	BX80557440
INTEL® PENTIUM® DESKTOP PROCESSOR												
G850	Sandy Bridge	Q2'11	2 / 2	2.90 GHz	3 MB	5 GT/s DMI	32 nm	65 W	Yes	FCLGA1155	CM8062301046204	BX80623G850
G6950	Clarkdale	Q1'10	2 / 2	2.80 GHz	3 MB	2.5 GT/s DMI	32 nm	73 W	Yes	FCLGA1155	CM80616004593AE	
G3420	Haswell	Q3'13	2 / 2	3.20 GHz	3 MB	5 GT/s DMI	22 nm	54 W	Yes	FCLGA1150	CM8064601482522	BX80646G3420
G2120	Ivy Bridge	Q1'13	2 / 2	3.10 GHz	3 MB	5 GT/s DMI	22 nm	55 W	Yes	FCLGA1155	CM8063701095801	BX80637G2120
E6500	Wolfdale	Q1'08	2 / 2	2.93 GHz	2 MB	1066 MHz FSB	45 nm	65 W	No	LGA775	AT80571PH0772ML	
E5300	Wolfdale	Q1'08	2 / 2	2.60 GHz	2 MB	800 MHz FSB	45 nm	65 W	No	LGA775	AT80571PG0642M	
E2160	Conroe	Q3'06	2 / 2	1.80 GHz	1 MB	800 MHz FSB	65 nm	65 W	No	LGA775	HH80557PG0331M	
INTEL® CORE™2 DUO DESKTOP PROCESSOR												
E8400	Wolfdale	Q1'08	2 / 2	3.00 GHz	6 MB	1333 MHz FSB	45 nm	65 W		LGA775	AT80570PJ0806M	
E7400	Wolfdale	Q1'08	2 / 2	2.80 GHz	3 MB	1066 MHz FSB	45 nm	65 W		LGA775	AT80571PH0723M	
E6400	Conroe	Q3'06	2 / 2	2.13 GHz	2 MB	1066 MHz FSB	65 nm	65 W		LGA775	HH80557PH0462M	
E4300	Conroe	Q3'06	2 / 2	1.80 GHz	2 MB	800 MHz FSB	65 nm	65 W		LGA775	HH80557PG0332M	
INTEL® CORE™2 QUAD DESKTOP PROCESSOR												
Q9400	Yorkfield	Q3'08	4 / 4	2.66 GHz	6 MB	1333 MHz FSB	45 nm	95 W		LGA775	AT80580PJ0676M	
INTEL® CORE™ i3 PROCESSOR												
i3-3220	Ivy Bridge	Q3'12	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	22 nm	55 W	Yes	FCLGA1155	CM8063701099500	BX80637I33220T
i3-2120	Sandy Bridge	Q1'11	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	32 nm	65 W	Yes	FCLGA1155	CM8062301044204	BX80623I32120
i3-2115C	Gladden	Q2'12	2 / 4	2.00 GHz	3 MB	5 GT/s DMI		25 W	Yes	FCBGA1284	AV8062701064700	
i3-330E	Arrandale	Q1'10	2 / 4	2.13 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	Yes	BGA1288	CN80617004467AC	
INTEL® CORE™ i5 PROCESSORS												
i5-4570TE	Haswell	Q2'13	2 / 4	2.70 GHz	4 MB	5 GT/s DMI	22 nm	35 W	Yes	FCLGA1150	CM8064601484301	
i5-4570S	Haswell	Q2'13	4 / 4	2.90 GHz	6 MB		22 nm	65 W	Yes	FCLGA1150	CM8064601465605	BX80646I54570S
i5-3550S	Ivy Bridge	Q2'12	4 / 4	3.00 GHz	6 MB	5 GT/s DMI	22 nm	65 W	Yes	FCLGA1155	CM8063701095203	
i5-2400	Sandy Bridge	Q1'11	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	32 nm	95 W	Yes	LGA1155	CM8062300834106	BX80623I52400
i5-750	Lynnfield	Q3'09	4 / 4	2.66 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	LGA1156	BV80605001911AP	
INTEL® CORE™ i7 PROCESSORS												
i7-4770TE	Haswell	Q2'13	4 / 8	3.30 GHz	8 MB	5 GT/s DMI	22 nm	45 W	Yes	FCLGA1150	CM8064601538900	
i7-4770S	Haswell	Q2'13	4 / 8	3.10 GHz	8 MB		22 nm	65 W	Yes	FCLGA1150	CM8064601465504	BX80646I74770S
i7-3770	Ivy Bridge	Q2'12	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	22 nm	77 W	Yes	FCLGA1155	CM8063701211600	BX80637I73770
i7-2600	Sandy Bridge	Q1'11	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	32 nm	95 W	Yes	LGA1155	CM8062300834302	BX80623I72600
i7-860	Lynnfield	Q3'09	4 / 8	2.80 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	LGA1156	BV80605001908AK	BX80605I7860
INTEL® ATOM™ PROCESSOR												
D525	Pineview	Q2'10	2 / 4	1.80 GHz	1 MB	2.5 GT/s DMI	45 nm	13 W	Yes	FCBGA559	AU80610006225AA	
D510	Pineview	Q1'10	2 / 4	1.66 GHz	1 MB	2.5 GT/s DMI	45 nm	13 W	Yes	FCBGA559	AU80610004392AA	
D425	Pineview	Q2'10	1 / 2	1.80 GHz	512 KB	2.5 GT/s DMI	45 nm	10 W	Yes	FCBGA559	AU80610006252AA	
D410	Pineview	Q1'10	1 / 2	1.66 GHz	512 KB	2.5 GT/s DMI	45 nm	10 W	Yes	FCBGA559	AU80610004671AA	
D2550	Cedarview	Q1'12	1 / 2	1.86 GHz	1 MB		32 nm	10 W	Yes	FCBGA559	DF8064101211300	

Intel® Embedded Processors

Intel® Mobile Processors (Embedded)

Processor #	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus Speed	Lithography	Max TDP	Integrated Graphics	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #
INTEL® CELERON® MOBILE PROCESSOR												
2980U	Haswell	Q3'13	2 / 2	1.60 GHz	2 MB		22 nm	15 W	Yes		CL8064701479801	
1047UE	Ivy Bridge	Q1'13	2 / 2	1.40 GHz	2 MB	5 GT/s DMI	22 nm	17 W	Yes	BGA1023	AV8063801116300	
1020E	Ivy Bridge	Q1'13	2 / 2	2.20 GHz	2 MB	5 GT/s DMI	22 nm	17 W	Yes	BGA1023 / PGA988	AV8063801276200	AW8063801117700
ULV 573	Merom	Q3'06	1 / 1	1.00 GHz	512 KB	533 MHz FSB	65 nm	10 W	No	PBGA479	LE80537VE001512	
U3405	Arrandale	Q1'10	2 / 2	1.06 GHz	2 MB	2.5 GT/s DMI	32 nm	18 W	Yes	BGA1288	CN80617006201AA	
T3100	Penryn	Q3'08	2 / 2	1.90 GHz	1 MB	800 MHz FSB	45 nm	35 W	No	BGA479 / PGA478	AV80577NG0371M	AW80577GG0371ML
P4505	Arrandale	Q1'10	2 / 2	1.86 GHz	2 MB	2.5 GT/s DMI	32 nm	35 W	Yes	BGA1288	CN80617004545AF	
P4500	Arrandale	Q1'10	2 / 2	1.86 GHz	2 MB	2.5 GT/s DMI	32 nm	35 W	Yes	PGA988		CP80617004803AA
B810E	Sandy Bridge	Q2'11	2 / 2	1.60 GHz	2 MB	5 GT/s DMI	32 nm	35 W	Yes	FCBGA1023	AV8062700849802	
B810	Sandy Bridge	Q1'11	2 / 2	1.60 GHz	2 MB	5 GT/s DMI	32 nm	35 W	Yes	PGA988		FF8062700848800
927UE	Ivy Bridge	Q1'13	1 / 1	1.50 GHz	1 MB	5 GT/s DMI	22 nm	17 W	Yes	FCBGA1023	AV8063801129600	
847E	Sandy Bridge	Q2'11	2 / 2	1.10 GHz	2 MB	5 GT/s DMI	32 nm	17 W	Yes	FCBGA1023	AV8062700849902	
827E	Sandy Bridge	Q3'11	1 / 1	1.40 GHz	1.5 MB	5 GT/s DMI	32 nm	17 W	Yes	FCBGA1023	AV8062701082300	
807UE	Sandy Bridge	Q4'11	1 / 1	1.00 GHz	1 MB	5 GT/s DMI	32 nm	10 W	Yes	FCBGA1023	AV8062701188200	
725C	Gladden	Q2'12	1 / 2	1.30 GHz	1.5 MB			10 W		FCBGA1284	AV8062701147000	
575	Merom	Q3'06	1 / 1	2.00 GHz	512 KB	667 MHz FSB	65 nm	31 W	No	PPGA478		LF80537NF0411M
550	Merom	Q3'06	1 / 1	2.00 GHz	1 MB	533 MHz FSB	65 nm	31 W	No	PBGA479 / PPGA478		LF80537NE0411M
INTEL® CORE™ DUO MOBILE PROCESSOR												
U2500	Yonah	Q1'06	2 / 2	1.20 GHz	2 MB	533 MHz FSB	65 nm	9 W		PBGA479		LE80539UE0092M
T2500	Yonah	Q1'06	2 / 2	2.00 GHz	2 MB	667 MHz FSB	65 nm	31 W		PBGA479 / PPGA478		LE80539GF0412M
L2400	Yonah	Q1'06	2 / 2	1.66 GHz	2 MB	667 MHz FSB	65 nm	15 W		PBGA479		LE80539LF0282M
INTEL® CORE™2 DUO MOBILE PROCESSOR												
U7500	Merom	Q3'06	2 / 2	1.06 GHz	2 MB	533 MHz FSB	65 nm	10 W		PBGA479	LE80537UE0042M	
T9400	Penryn	Q3'08	2 / 2	2.53 GHz	6 MB	1066 MHz FSB	45 nm	35 W		BGA479 / PGA478	AV80576GH0616M	AW80576GH0616M
T7500	Merom	Q3'06	2 / 2	2.20 GHz	4 MB	800 MHz FSB	65 nm	35 W		PBGA479 / PPGA478	LE80537GG0494M	LF80537GG0494M
T7400	Merom	Q3'06	2 / 2	2.16 GHz	4 MB	667 MHz FSB	65 nm	34 W		PBGA479 / PPGA478	LE80537GF0484M	LF80537GF0484M
SU9300	Penryn	Q3'08	2 / 2	1.20 GHz	3 MB	800 MHz FSB	45 nm	10 W		BGA956	AV80577UG0093M	
SP9300	Penryn	Q3'08	2 / 2	2.26 GHz	6 MB	1066 MHz FSB	45 nm	25 W		BGA956	AV80576SH0516M	
SL9400	Penryn	Q3'08	2 / 2	1.86 GHz	6 MB	1066 MHz FSB	45 nm	17 W		BGA956	AV80576LH0366M	
SL9380	Penryn	Q3'08	2 / 2	1.80 GHz	6 MB	800 MHz FSB	45 nm	17 W		BGA956	AV80576LG0336M	
P8400	Penryn	Q3'08	2 / 2	2.26 GHz	3 MB	1066 MHz FSB	45 nm	25 W		BGA479 / PGA478	AV80577SH0513M	AW80577SH0513M
L7500	Merom	Q3'06	2 / 2	1.60 GHz	4 MB	800 MHz FSB	65 nm	17 W		PBGA479	LE80537LG0254M	
L7400	Merom	Q3'06	2 / 2	1.50 GHz	4 MB	667 MHz FSB	65 nm	17 W		PBGA479	LE80537LF0214M	
INTEL® ATOM™ PROCESSOR												
Z530P	Silverthorne	Q2'08	1 / 2	1.60 GHz	512 KB	533 MHz FSB	45 nm	2.2 W		FCBGA437	CH80566EE025DW	
Z530	Silverthorne	Q2'08	1 / 2	1.60 GHz	512 KB	533 MHz FSB	45 nm	2 W		PBGA441		AC80566UE025DW
Z520PT	Silverthorne	Q2'08	1 / 2	1.33 GHz	512 KB	533 MHz FSB	45 nm	2.2 W		FCBGA437	CH80566EE014DT	
Z510PT	Silverthorne	Q2'08	1 / 2	1.10 GHz	512 KB	400 MHz FSB	45 nm	2.2 W		FCBGA437	CH80566EC005DT	
Z510P	Silverthorne	Q2'08	1 / 2	1.10 GHz	512 KB	400 MHz FSB	45 nm	2.2 W		FCBGA437	CH80566EC005DW	
Z510	Silverthorne	Q2'08	1 / 1	1.10 GHz	512 KB	400 MHz FSB	45 nm	2 W		FCBGA437		AC80566UC005DE
N2800	Cedarview	Q4'11	2 / 4	1.86 GHz	1 MB	2.5 GT/s DMI	32 nm	6.5 W	Yes	FCBGA559	DF8064101050503	
N2600	Cedarview	Q4'11	2 / 4	1.60 GHz	1 MB	2.5 GT/s DMI	32 nm	3.5 W	Yes	FCBGA559	DF8064101050706	
N455	Pineview	Q2'10	1 / 2	1.66 GHz	512 KB	2.5 GT/s DMI	45 nm	6.5 W	Yes	FCBGA559	AU80610006237AA	
N450	Pineview	Q1'10	1 / 2	1.66 GHz	512 KB	2.5 GT/s DMI	45 nm	5.5 W	Yes	FCBGA559	AU80610004653AA	
N270	Diamondville	Q2'08	1 / 2	1.60 GHz	512 KB	533 MHz FSB	45 nm	2.5 W		PGBGA437		AU80586GE025D
E680T	Tunnel Creek	Q3'10	1 / 2	1.60 GHz	512 KB	2500 MHz	45 nm	4.5 W	Yes	FCBGA676	CT8061800735AB	
E680	Tunnel Creek	Q3'10	1 / 2	1.60 GHz	512 KB	2500 MHz	45 nm	4.5 W	Yes	FCBGA676	CT80618007035AA	
E660T	Tunnel Creek	Q3'10	1 / 2	1.3 GHz	512 KB	2500 MHz	45 nm	3.6 W	Yes	FCBGA676	CT80618003201AB	
E660	Tunnel Creek	Q3'10	1 / 2	1.3 GHz	512 KB	2500 MHz	45 nm	3.6 W	Yes	FCBGA676	CT80618003201AA	
E640T	Tunnel Creek	Q3'10	1 / 2	1.0 GHz	512 KB	2500 MHz	45 nm	3.6 W	Yes	FCBGA676	CT80618005841AB	
E640	Tunnel Creek	Q3'10	1 / 2	1.0 GHz	512 KB	2500 MHz	45 nm	3.6 W	Yes	FCBGA676	CT80618005841AA	
E620T	Tunnel Creek	Q3'10	1 / 2	600 MHz	512 KB	2500 MHz	45 nm	3.3 W	Yes	FCBGA676	CT80618005844AB	
E620	Tunnel Creek	Q3'10	1 / 2	600 MHz	512 KB	2500 MHz	45 nm	3.3 W	Yes	FCBGA676	CT80618005844AA	

Intel® Embedded Processors

Intel® Mobile Processors (Embedded)

Processor #	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus Speed	Lithography	Max TDP	Integrated Graphics	Socket	uFCBGA Tray Part #	uFCPGA Tray Part #
INTEL® PENTIUM® MOBILE PROCESSOR												
B915C	Gladden	Q2'12	2 / 4	1.50 GHz	3 MB			15 W	Yes	FCBGA1284	AV8062701147401	
INTEL® CORE™ i3 MOBILE PROCESSORS												
i3-3217UE	Ivy Bridge	Q3'12	2 / 4	1.60 GHz	3 MB	5 GT/s DMI	22 nm	17 W	Yes	FCBGA1023	AV8063801149500	
i3-3120ME	Ivy Bridge	Q3'12	2 / 4	2.40 GHz	3 MB	5 GT/s DMI	22 nm	35 W	Yes	FCBGA1023	AV8063801117300	AW8063801117901
i3-2340UE	Sandy Bridge	Q2'11	2 / 4	1.30 GHz	3 MB	5 GT/s DMI	32 nm	17 W	Yes	FCBGA1023	AV8062700849710	
i3-2330E	Sandy Bridge	Q2'11	2 / 4	2.20 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	FCPGA988	FF8062700849000	
i3-2310E	Sandy Bridge	Q1'11	2 / 4	2.10 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	FCBGA1023	AV8062700849116	
i3-330E	Arrandale	Q1'10	2 / 4	2.13 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	Yes	BGA1288	CN80617004467AC	
INTEL® CORE™ i5 MOBILE PROCESSORS												
i5-4300U	Haswell	Q3'13	2 / 4	1.90 GHz	3 MB		22 nm	15 W	Yes	FCBGA1168	CL8064701477400	
i5-4400E	Haswell	Q3'13	2 / 4	2.70 GHz	3 MB	5 GT/s DMI	22 nm	37 W	Yes	FCBGA1364	CL8064701483902	
i5-4402E	Haswell	Q3'13	2 / 4	1.60 GHz	3 MB	5 GT/s DMI	22 nm	25 W	Yes	FCBGA1364	CL8064701528501	
i5-3610ME	Ivy Bridge	Q2'12	2 / 4	3.30 GHz	3 MB	5 GT/s DMI	22 nm	35 W	Yes	FCBGA1023 / FCPGA988	AV8063801116102	AW8063801115901
i5-2515E	Sandy Bridge	Q1'11	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	FCBGA1023	AV8062700853208	
i5-2510E	Sandy Bridge	Q1'11	2 / 4	2.50 GHz	3 MB	5 GT/s DMI	32 nm	35 W	Yes	FCPGA988	FF8062700853304	
i5-520M	Arrandale	Q1'10	2 / 4	2.40 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	Yes	PGA988	CP80617004119AE	
i5-520E	Arrandale	Q1'10	2 / 4	2.40 GHz	3 MB	2.5 GT/s DMI	32 nm	35 W	Yes	BGA1288	CN80617004461AB	
INTEL® CORE™ i7 MOBILE PROCESSORS												
i7-4650U	Haswell	Q2'13	2 / 4	1.70 GHz	4 MB		22 nm	15 W	Yes	FCBGA1168	CL8064701462800	
i7-4700EQ	Haswell	Q2'13	4 / 8	2.40 GHz	6 MB	5 GT/s DMI	22 nm	47 W	Yes	FCBGA1364	CL8064701483802	
i7-3615QE	Ivy Bridge	Q2'12	4 / 8	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	Yes	FCBGA1023	AV8063801117503	
I7-3612QE	Ivy Bridge	Q2'12	4 / 8	2.10 GHz	6 MB	5 GT/s DMI	22 nm	35 W	Yes	FCBGA1023	AV8063801149203	
i7-3610QE	Ivy Bridge	Q2'12	4 / 8	2.30 GHz	6 MB	5 GT/s DMI	22 nm	45 W	Yes	FCPGA988		AW8063801118306
i7-3555LE	Ivy Bridge	Q2'12	2 / 4	2.50 GHz	4 MB	5 GT/s DMI	22 nm	25 W	Yes	FCBGA1023	AV8063801116903	
i7-3517UE	Ivy Bridge	Q2'12	2 / 4	1.70 GHz	4 MB	5 GT/s DMI	22 nm	17 W	Yes	FCBGA1023	AV8063801149402	
i7-2715QE	Sandy Bridge	Q1'11	4 / 8	2.10 GHz	6 MB	5 GT/s DMI	32 nm	45 W	Yes	FCBGA1023	AV8062700843908	
i7-2710QE	Sandy Bridge	Q1'11	4 / 8	2.10 GHz	6 MB	5 GT/s DMI	32 nm	45 W	Yes	FCPGA988	FF8062700841002	
i7-2655LE	Sandy Bridge	Q1'11	2 / 4	2.20 GHz	4 MB	5 GT/s DMI	32 nm	25 W	Yes	FCBGA1023	AV8062700849508	
i7-2610UE	Sandy Bridge	Q1'11	2 / 4	1.50 GHz	4 MB	5 GT/s DMI	32 nm	17 W	Yes	FCBGA1023	AV8062700849607	
i7-660UE	Arrandale	Q1'10	2 / 4	1.33 GHz	4 MB	2.5 GT/s DMI	32 nm	18 W	Yes	BGA1288	CN80617006204AA	
i7-620UE	Arrandale	Q1'10	2 / 4	1.06 GHz	4 MB	2.5 GT/s DMI	32 nm	18 W	Yes	BGA1288	CN80617004458AB	
i7-620M	Arrandale	Q1'10	2 / 4	2.66 GHz	4 MB	2.5 GT/s DMI	32 nm	35 W	Yes	PGA988	CP80617003981AH	
i7-620LE	Arrandale	Q1'10	2 / 4	2.00 GHz	4 MB	2.5 GT/s DMI	32 nm	25 W	Yes	BGA1288	CN80617004455AB	
i7-610E	Arrandale	Q1'10	2 / 4	2.53 GHz	4 MB	2.5 GT/s DMI	32 nm	35 W	Yes	BGA1288	CN80617005745AB	

Intel® Server Processors (Embedded)

Processor #	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus Speed	Lithography	Max TDP	Integrated Graphics	Max CPU	Socket	OEM Tray Part #	Retail Boxed Part #
INTEL® XEON® PROCESSOR E3 FAMILY													
E3-1275 v3	Haswell	Q2'13	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	22 nm	84 W	Yes	1	FCLGA1150	CM8064601466508	BX80646E31275V3
E3-1275 v2	Ivy Bridge	Q2'12	4 / 8	3.50 GHz	8 MB	5 GT/s DMI	22 nm	77 W	Yes	1	FCLGA1155	CM8063701098702	BX80637E31275V2
E3-1275	Sandy Bridge	Q2'11	4 / 8	3.40 GHz	8 MB	5 GT/s DMI	32 nm	95 W	Yes	1	LGA1155	CM8062307262003	BX80623E31275
E3-1268L v3	Haswell	Q2'13	4 / 8	2.30 GHz	8 MB	5 GT/s DMI	22 nm	45 W	Yes	1	FCLGA1150	CM8064601484200	
E3-1225 v3	Haswell	Q2'13	4 / 4	3.20 GHz	8 MB	5 GT/s DMI	22 nm	84 W	Yes	1	FCLGA1150	CM8064601466507	BX80646E31225V3
E3-1225 v2	Ivy Bridge	Q2'12	4 / 4	3.20 GHz	8 MB	5 GT/s DMI	22 nm	77 W	Yes	1	FCLGA1155	CM8063701160603	BX80637E31225V2
E3-1225	Sandy Bridge	Q2'11	4 / 4	3.10 GHz	6 MB	5 GT/s DMI	32 nm	95 W	Yes	1	LGA1155	CM8062307262304	BX80623E31225
E3-1125C v2	Gladden	Q3'13	4 / 8	2.00 GHz	8 MB	5 GT/s DMI	22 nm	40 W		1	FCBGA1284	CN8063801193902	
E3-1125C	Gladden	Q2'12	4 / 8	2.00 GHz	8 MB			40 W		1	FCBGA1284	AV8062701146600	
E3-1105C v2	Gladden	Q3'13	4 / 8	1.80 GHz	8 MB	5 GT/s DMI	22 nm	25 W			FCBGA1284	CN8063801194002	
E3-1105C	Gladden	Q2'12	4 / 8	1.00 GHz	6 MB			25 W			FCBGA1284	AV8062701048800	
INTEL® XEON® PROCESSOR E5 FAMILY													
E5-2680 v2	Ivy Bridge	Q3'13	10 / 20	2.80 GHz	25 MB	8.0 GT/s QPI	22 nm	115 W		2	FCLGA2011	CM8063501374901	WX80635E52680V2
E5-2658 v2	Ivy Bridge	Q3'13	10 / 20	2.40 GHz	25 MB	8.0 GT/s QPI	22 nm	95 W		2	FCLGA2011	CM8063501293200	
E5-2658	Sandy Bridge-EP	Q1'12	8 / 16	2.10 GHz	20 MB	8.0 GT/s QPI	32 nm	95 W	No	2	FCLGA2011	CM8062101042805	
E4-2648L v2	Ivy Bridge	Q3'13	10 / 20	1.90 GHz	25 MB	8.0 GT/s QPI	22 nm	70 W		2	FCLGA2011	CM8063501293506	

Intel® Embedded Processors

Intel® Server Processors (Embedded) (Cont.)

Processor #	Code Name	Release	Cores / Threads	Clock Speed	Cache	Bus Speed	Lithography	Max TDP	Integrated Graphics	Max CPU	Socket	OEM Tray Part #	Retail Boxed Part #
INTEL® XEON® PROCESSOR E5 FAMILY													
E5-2648L	Sandy Bridge-EP	Q1'12	8 / 16	1.80 GHz	20 MB	8.0 GT/s QPI	32 nm	70 W	No	2	FCLGA2011	CM8062100854905	
E5-2640 v2	Ivy Bridge	Q3'13	8 / 16	2.00 GHz	20 MB	7.2 GT/s QPI	22 nm	95 W		2	FCLGA2011	CM8063501288202	WX80635E52640V2
E5-2628L v2	Ivy Bridge	Q3'13	8 / 16	1.09 GHz	20 MB	7.2 GT/s QPI	22 nm	70 W		2	FCLGA2011	CM8063501522202	
E5-2630 v2	Ivy Bridge	Q3'13	6 / 12	2.60 GHz	15 MB	7.2 GT/s QPI	22 nm	80 W		2	FCLGA2011	CM8063501288100	
E5-2620	Sandy Bridge-EP	Q1'12	6 / 12	2.00 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W	Yes	2	FCLGA2011	CM8062101048401	BX80621E52620
E5-2618L v2	Ivy Bridge	Roadmap	6 / 12	2.00 GHz	15 MB	6.4 GT/s QPI	22 nm	50 W		2	FCLGA2011	CM8063501521302	
E5-2450 v2	Ivy Bridge	Roadmap	8 / 16	2.50 GHz	20 MB	8.0 GT/s QPI	22 nm	95 W			FCLGA1356	CM8063401376400	
E5-2448L v2	Ivy Bridge	Roadmap	10 / 20	1.80 GHz	25 MB	8.0 GT/s QPI	22 nm	70 W			FCLGA1356	CM8063401293802	
E5-2448L	Sandy Bridge-EP	Q2'12	8 / 16	1.80 GHz	20 MB	8.0 GT/s QPI	32 nm	70 W	No	2	FCLGA1356	CM8062007187409	
E5-2430 v2	Ivy Bridge	Roadmap	6 / 12	2.50 GHz	15 MB	7.2 GT/s QPI	22 nm	80 W			FCLGA1356	CM8063401286400	
E5-2430	Sandy Bridge-EP	Q2'12	6 / 12	2.20 GHz	15 MB	7.2 GT/s QPI	32 nm	95 W		2	FCLGA1356	CM8062001122601	BX80621E52430
E5-2428L v2	Ivy Bridge	Roadmap	8 / 16	2.30 GHz	20 MB	7.2 GT/s QPI	22 nm	60 W			FCLGA1356	CM8063401293902	
E5-2428L	Sandy Bridge-EP	Q2'12	6 / 12	1.80 GHz	15 MB	7.2 GT/s QPI	32 nm	60 W	No	2	FCLGA1356	CM8062007187509	
E5-2418L v2	Ivy Bridge	Roadmap	6 / 12	2.00 GHz	15 MB	6.4 GT/s QPI	22 nm	50 W			FCLGA1356	CM8063401294008	
E5-2418L	Sandy Bridge-EP	Q2'12	4 / 8	2.00 GHz	10 MB	6.4 GT/s QPI	32 nm	50 W	No	2	FCLGA1356	CM8062000911406	
E5-1428L v2	Ivy Bridge	Roadmap	6 / 12	2.20 GHz	15 MB			60 W			FCLGA1356	TBD	
INTEL® XEON® PROCESSOR 3000 SEQUENCE													
X3450	Lynnfield	Q3'09	4 / 8	2.66 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	1	LGA1156	BV80605001911AQ	BX80605X3450
X3430	Lynnfield	Q3'09	4 / 4	2.40 GHz	8 MB	2.5 GT/s DMI	45 nm	95 W	No	1	LGA1156	BV80605001914AG	BX80605X3430
INTEL® XEON® PROCESSOR 5000 SEQUENCE													
LV 5148	Woodcrest	Q2'06	2 / 2	2.33 GHz	4 MB	1333 MHz FSB	65 nm	40 W			LGA771	HH8056JJ0534M	
LV 5138	Woodcrest	Q2'06	2 / 2	2.13 GHz	4 MB	1066 MHz FSB	65 nm	35 W			LGA771	HH80556JH0464M	
LV 5128	Woodcrest	Q2'06	2 / 2	1.86 GHz	4 MB	1066 MHz FSB	65 nm	40 W			LGA771	HH80556JH0364M	
LC5528	Jasper Forest	Q1'10	4 / 8	2.13 GHz	8 MB	4.8 GT/s QPI	45 nm	60 W		2	FCLGA1366	AT80612003858AA	
LC5518	Jasper Forest	Q1'10	4 / 8	1.73 GHz	8 MB	4.8 GT/s QPI	45 nm	48 W		2	FCLGA1366	AT80612002928AC	
LC3528	Jasper Forest	Q1'10	2 / 4	1.73 GHz	4 MB	2.5 GT/s DMI	45 nm	35 W		1	FCLGA1366	AT80612002931AB	
LC3518	Jasper Forest	Q1'10	1 / 1	1.73 GHz	2 MB	2.5 GT/s DMI	45 nm	23 W		1	FCLGA1366	AT80612002946AA	
L5638	Westmere-EP	Q1'10	6 / 12	2.00 GHz	12 MB	5.86 GT/s QPI	32 nm	60 W			FCLGA1366	AT80614003591AB	
L5618	Westmere-EP	Q1'10	4 / 8	1.87 GHz	12 MB	5.86 GT/s QPI	32 nm	40 W			FCLGA1366	AT80614005079AB	
L5518	Nehalem-EP	Q1'09	4 / 8	2.13 GHz	8 MB	5 GT/s DMI	45 nm	60 W		2	FCLGA1366	AT80602002265AB	
L5508	Nehalem-EP	Q1'09	2 / 4	2.00 GHz	8 MB	5 GT/s DMI	45 nm	38 W		2	FCLGA1366	AT80602002697AC	
L5410	Harpertown	Q1'08	4 / 4	2.33 GHz	12 MB	1333 MHz FSB	45 nm	50 W			LGA771	AT80574JJ053N	
L5408	Harpertown	Q1'08	4 / 4	2.13 GHz	12 MB	1066 MHz FSB	45 nm	40 W			LGA771	AT80574JH046NT	
L5318	Clovertown	Q1'07	4 / 4	1.60 GHz	8 MB	1066 MHz FSB	65 nm	40 W			PLGA771	HH80563JH0258MT	
L5238	Wolfdale	Q1'08	2 / 2	2.66 MHz	6 MB	1333 MHz FSB	45 nm	35 W			LGA771	AT80573JJ0676MT	
EC5549	Jasper Forest	Q1'10	4 / 8	2.56 GHz	8 MB	5 GT/s DMI	45 nm	85 W		2	FCLGA1366	AT80612005712AB	
EC5539	Jasper Forest	Q1'10	2 / 2	2.27 GHz	4 MB	5 GT/s DMI	45 nm	65 W		2	FCLGA1366	AT80612003861AB	
EC5509	Jasper Forest	Q1'10	4 / 4	2.00 GHz	8 MB	4.8 GT/s QPI	45 nm	85 W		2	FCLGA1366	AT80612004740AA	
EC3539	Jasper Forest	Q1'10	4 / 4	2.13 GHz	8 MB	2.5 GT/s DMI	45 nm	65 W		1	FCLGA1366	AT80612003090AA	
E5645	Westmere-EP	Q1'10	6 / 12	2.40 GHz	12 MB	5.86 GT/s QPI	32 nm	80 W	No	2	FCLGA1366	AT80614003597AC	BX80614E5645
E5620	Westmere-EP	Q1'10	4 / 8	2.40 GHz	12 MB	5.86 GT/s QPI	32 nm	80 W	No	2	FCLGA1366	AT80614005073AB	BX80614E5620
E5540	Westmere-EP	Q1'09	4 / 8	2.53 GHz	8 MB	5.86 GT/s QPI	45 nm	80 W	No	2	FCLGA1366	AT80602000789AA	BX80602E5540
E5504	Nehalem-EP	Q1'09	4 / 4	2.00 GHz	4 MB	4.8 GT/s QPI	45 nm	80 W		2	FCLGA1366	AT80602000801AA	BX80602E5504
E5440	Harpertown	Q1'08	4 / 4	2.83 GHz	12 MB	1333 MHz FSB	45 nm	80 W			LGA771	AT80574KJ073N	
E5345	Clovertown	Q1'07	4 / 4	2.33 GHz	8 MB	1333 MHz FSB	65 nm	80 W			PLGA771	HH80563QJ0538M	
E5335	Clovertown	Q1'07	4 / 4	2.00 GHz	8 MB	1333 MHz FSB	65 nm	80 W			PLGA771	HH80563QJ0418M	
E5240	Wolfdale	Q1'08	2 / 2	3.00 GHz	6 MB	1333 MHz FSB	65 nm	65 W			LGA771	AT80573QJ0806M	
E5220	Wolfdale	Q1'08	2 / 2	2.33 GHz	6 MB	1333 MHz FSB	45 nm	65 W			LGA771	AT80573QJ0536M	
5140	Woodcrest	Q2'06	2 / 2	2.33 GHz	4 MB	1333 MHz FSB	65 nm	65 W			LGA771	HH80556KJ0534M	

**Please refer to http://ark.intel.com for updated availability information.

Next Unit of Computing
DC3217BY

THUNDERBOLT™

Windows 8 Compatible

intel inside™ CORE™ i3

intel

The Shape that Fits the Future

Copyright© 2012 Intel Corporation. All rights reserved. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation in the U.S. and other countries.
*Other names and brands may be claimed as the property of others.

Visit www.em.avnet/intel for more information about Intel products.

intel

AVNET electronics marketing

Accelerating Your Success™

1-800-332-8638
www.em.avnet.com

Copyright © 2013 Avnet, Inc. AVNET and the AV logo are registered trademarks of Avnet, Inc. All other brands are the property of their respective owners. AEM-ITL-SOLGUIDE-0913