Delivering Exceptional Value and Quality

Intel® Desktop Board D915GVWB

The Intel® Desktop Board D915GVWB based on the Intel® 915GV Express Chipset offers new and exciting features for your next value system.

The Intel Desktop Board D915GVWB supports the Intel® Pentium® 4 and Intel® Celeron® D processors in the LGA775 package and is designed to deliver a range of usage models in the consumer or corporate environment. This desktop board delivers both quality and value by offering integrated features such as 800-MHz system bus support, Intel® Graphics Media Accelerator 900, Intel® High Definition Audio, and Intel® PRO 10/100 LAN (optional).

Boxed Intel® Desktop Board D915GVWB includes:

- Desktop Board D915GVWB
- ATX 2.01-compliant I/O shield
- Floppy, SATA and ATA 100/66 cables
- Board and back-panel I/O layout stickers
- Quick Reference Guide
- Desktop board three-year limited warranty
- Intel® Express Installer CD, including:
  - Intel® Desktop Utilities**
  - Norton Internet Security*
  - NTI CD-Maker*
  - Musicmatch* Jukebox
  - Sonic Focus*
  - InterVideo* Home Theater Silver
  - InterVideo* WinDVD Creator Silver
  - Farstone* RestoreIT! Lite
  - LANDesk* System Manager†
  - WebEx* Personal Edition†
  - Detto IntelliMover* offer
  - Software Drivers
  - Desktop Board Product Guide

Intel® Desktop Board D915GVWB

FEATURES AND BENEFITS

1. Support for the Intel® Pentium® 4 and Intel® Celeron® D processor: Supports Intel® processors featuring the 800- or 533-MHz system bus via the LGA775 socket. Supports boxed Intel processors with packaging designated by 04A or 04B Platform Compatibility Guide.

2. Intel® 915GV Express Chipset featuring Intel® Graphics Media Accelerator 900: Low-cost high-performance integrated graphics solution.

3. Dual-Channel DDR 400/333 SDRAM support: Four DIMM sockets designed to support up to 4 GB[1] of SDRAM memory.

4. Four Serial ATA150 ports: Facilitates high-speed storage transfers at up to 1.5 GB/s per port, allows easy hard drive upgrades and expansion for new SATA optical drives.

5. Integrated Intel® PRO 10/100 LAN (optional): Onboard 10/100-Mbps Ethernet LAN connectivity.

6. Intel® High Definition Audio: Flexible six-channel audio with jack sensing. This new standard in PC audio provides an outstanding user experience for movies, music, and games with higher bit rate processing (24-bit), flexible 5.1 audio capability, and improved jack sensing.

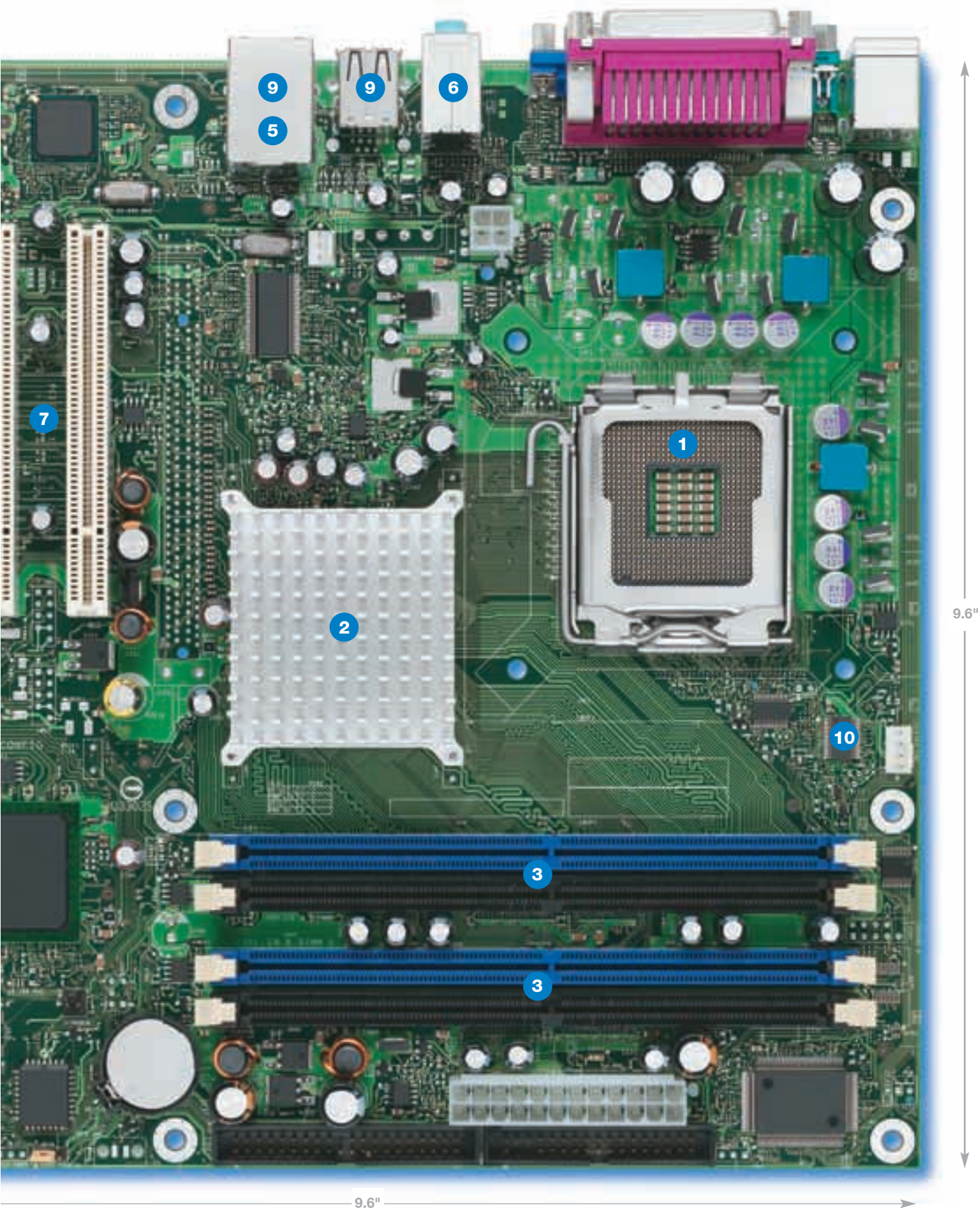
7. Two PCI connectors: Expansion slots for custom system configurations and future add-in card upgrades.

8. One PCI Express* x1 connector: With up to a 500 MB/s concurrent data transfer bandwidth, more than doubles the I/O bandwidth of traditional PCI architecture.

9. Eight Hi-Speed USB 2.0 ports: Four back-panel ports and an additional four front-panel USB ports via two internal headers.

10. Intel® Precision Cooling Technology: Advanced management ASIC supports temperature-based fan control. System fan noise may be reduced by controlled chassis and processor fans operating at the minimum necessary speeds.

11. Instantly-Available PC (suspend-to-RAM): Enables advanced power savings (not pictured).


9
5
9
6
7
1
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10
3
3
9.6"
9.6"

Intel® Desktop Board D915GVWB

TECHNICAL SPECIFICATIONS

Processor

Processors Supported	• Intel® Pentium® 4 processors with 800-MHz system bus in the LGA775 package • Intel® Celeron® D processors with 533-MHz system bus in the LGA775 package •Supports boxed Intel® processors with packaging designated by 04A or 04B Platform Compatibility Guide
Intel® 915GV Express Chipset	• Intel® 82915GV Graphics Memory Controller Hub (GMCH) • Intel® 82801DB I/O Controller Hub (Intel® ICH6) • Firmware Hub (FWH)
Graphics Memory Controller Hub (GMCH)	Designed to support up to 4 GB[1] of system memory using DDR400/333 SDRAM memory
Intel® ICH6 I/O Controller Hub	• Four SATA (1.5 Gb/s) ports • Up to two ATA 100/66 devices • Intel® PRO 10/100 network connection (optional)
I/O Features	• Integrated super I/O LPC bus controller • One PCI Express* x1 local bus slot • Two PCI local bus slots
USB 2.0	Integrated Intel® ICH6 controllers: • Four back-panel ports (two dual stack) • Four front-panel ports (via 2-headers requiring cabling to front panel)

Firmware Hub

System BIOS	• 4-Mb Flash EEPROM featuring the Intel® Platform Innovation Framework for EFI Plug and Play, IDE drive auto-configure • Advanced configuration and power interface V1.0b, DMI 2.0, multilingual support
Intel® Rapid BIOS Boot	• Optimized POST for faster access to PC from power-on

System Memory

Memory Capacity	• Four 184-pin DIMM connectors supporting up to two double-sided DIMMs
Memory Types	• DDR400/333 SDRAM Memory Support • Non-ECC RAM (ECC memory will attempt to run in Non-ECC mode only)
Memory Modes	• Dual- and single-channel operation support
Memory Voltage	• 2.5V

Hardware Management Features

• Processor fan speed control
• System chassis fan speed control
• Voltage and temperature sensing
• Fan sensor inputs used to monitor fan activity
• Power management support for ACPI 1.0b

Wake-Up From Network

• Wired for Management (WfM) 2.0-compatible
• Support for system wake-up using an add-in network interface card with remote wake-up capability or integrated LAN

Expansion Capabilities

• Two PCI bus add-in card connectors
• One PCI Express* x1 bus add-in card connector

Jumpers and Front-Panel Connectors

Jumpers	• Single configuration jumper design • Jumper access for BIOS configuration mode
Front-Panel Connectors	• Reset, HD LED, Power LEDs, power on/off • Two front-panel Hi-Speed USB 2.0 headers • Front-panel audio header

Mechanical

Board Style	• MicroATX 1.0-compliant
Board Size	• 9.6" x 9.6"

Baseboard Power

Requirements	• ATX 12V or SFX 12V

Environment

Operating Temperature	• 0° C to +55° C
Storage Temperature	• -40° C to +70° C

Regulations

Safety Regulations	
U.S. and Canada	UL 1950, Third edition—CAN/CSA C22.2 No. 950-95 with recognized U.S. and Canadian component marks
Europe	Nemko* certified to EN 60950
International	Nemko certified to IEC 60950 (CB report with CB certificate)
EMC regulations (tested in representative chassis)	
U.S.	FCC Part 15, Class B
U.S.	FCC Part 15, Class B open-chassis (cover off) testing
Canada	ICES-003, Class B
Europe	EMC directive 89/336/EEC; EN 55022:1998 Class B; EN 55024:1998
Australia/New Zealand	AS/NZS 3548, Class B
Taiwan	CNS 13438, Class B
International	CISPR 22:1997, Class B

Power requirements vary. Complies with US CRF via EN55022 +6 db in system configurations with an open chassis and EU Directive 89/336/EEC and use via EN55022 and EN50082-1 in a representative chassis.

Ordering Information

See Intel's Web site at www.intel.com
For the most current product information available, visit Intel's Web site at:
developer.intel.com/design/motherbd/

[1] Intel® Desktop Board D915GVWB was designed to support up to 4-GB total system memory using DIMMs based on 512-Mbit or 1-Gbit technologies. 1-Gbit technology has not been validated on this Intel® desktop board. For more information about the latest list of tested memory, refer to the Intel World Wide Web site at: http://support.intel.com/support/motherboards/desktop/

1104/MS/AT/PDF C304563-001