



Extremely Strong Hybrid Computing Power with Complete I/O Integration

The ASUS ESC1000 G2 is a second generation professional workstation based on the Intel® Xeon® E5-1600 processor platform, featuring three 5.25" media bays, four hot-swap 3.5" SATA hard drive cages, 80PLUS Gold 1350W power supply, and six PCI Express 3.0 x16 expansion slots. It is designed for professional applications in fluid dynamics, medical research, engineering, the sciences, financial modeling, real-time graphics, rendering, and heavy-duty ray tracing.

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Quad-GPU support unleashes more computing power

Six PCI Express 3.0 x16 slots enable up to four double-deck GPUs, using new Gen 3 links to provide double the bandwidth

of PCI Express 2.0. Fully compatible with NVIDIA® Quadro™ and Tesla™ GPUs, the ESC1000 G2 is ideal for SOHO workplaces with its ability to handle massive computing tasks.

Dual Intel® Ethernet for fast networking

Twin Ethernet controllers support doubled network bandwidth, alongside teaming and fault tolerance functions to offer extra-reliable and fast network connections.

ASUS SSD Caching

Unique design boosts system performance by using an installed SSD as a cache for frequently accessed data. This allows you to access data easily and quickly without wasting time waiting for data to transfer.

USB 3.0 Boost

The ESC1000 G2 detects and optimizes connected device protocols automatically for faster USB speeds in all usage scenarios.

Maximum power supply with DIGI+ for demanding workloads

The 1350W 80PLUS Gold power supply unit cuts down system power loss and improves energy efficiency, saving users money on operating costs. With exclusive ASUS DIGI+ Power, the ESC1000 G2 utilizes precise power adjustments on both the processor and memory modules, providing higher system stability.

DTS® Ultra PC II

A brand-new friendly interface brings more functions, including symmetry, audio restoration, and enhancement. DTS® symmetry monitors and balances level differences between all digital audio formats, while audio restoration reconstructs percussion and transient sounds from compressed sources to restore lost punch and clarity.

AI Suite II

The ESC1000 G2 is bundled with ASUS AI Suite II, which provides one-stop utility management and a user-friendly interface for system tuning.

Cutting-edge architecture

The ESC1000 G2 supports new Intel® Sandy Bridge-E processors. With eight DIMM slots and DDR3 1600, it accommodates up to 64GB in memory capacity, providing high computing capabilities. Extra PCI Express 3.0 lanes are perfect for systems that require high I/O connectivity and bandwidth, with support for more compatible devices.



Specifications

Processor / System Bus

1 x Socket 2011

Intel® Xeon® processor E5-1600 product family

Intel® Xeon® processor E5-1600 v2 product family

Intel® Core™ i7 Processors for LGA 2011 Socket

*Refer to www.asus.com for CPU Support list

Core Logic

Intel® X79 Chipset

Memory

Capacity : Maximum up to 64GB UDIMM

Memory Type :

DDR3 2400 (O.C.)/2133 (O.C.)/1866/1600/1333/1066 UDIMM non ECC*

DDR3 2400 (O.C.)/2133 (O.C.)/1866/1600/1333/1066 UDIMM with ECC*

Memory Size :

8GB, 4GB, 2GB, 1GB UDIMM

Expansion Slots

Total: 6

4 x PCI-E 3.0 x16 (dual at x16/x16; Quad at x8/x8/x8/x8)

2 x PCI-E 3.0 x16 (at x4 mode)

Storage

SATA Controller :

Intel® X79

2 x SATA3 6Gb/s ports

4 x SATA2 3Gb/s ports

Intel® Rapid Storage Technology Enterprise(RSTe) (For Windows Only)

(Support Software RAID 0, 1, 5, 10)

SATA Controller :

Marvell 88SE9128

2 x SATA3 6Gb/s ports

Marvell® RAID Utility (For Windows Only)

(Support Software RAID 0/1)

HDD Bays

4 * Hot-swap 3.5" "HDD Bays

Auxiliary Storage FDD/CD/DVD

3 * 5.25" media bays

(Optional: No ODD/DVD-RW)

(DVD-RW default for North America)

Networking

1 x Intel® 82574L
1 x Intel® 82579V (PHY)

Multi-GPU Support

Support ATI® CrossFireX™ technology, up to Quad CrossFireX
Supports NVIDIA® 4-Way Geforce SLI™ technology

On Board I/O

1 x PS/2 keyboard port
1 x PS/2 mouse port
1 x USB BIOS Flashback switch
1 x S/PDIF Out (Optical)
8 x USB 2.0 ports
2 x USB 3.0 ports
1 x IEEE 1394a port
2 x RJ-45 ports
1 x 8-channel Audio I/O

OS Support

Fedora 16
Windows® 7 32/64-bit
Windows® Vista 32/64-bit
Windows® XP 32/64-bit
RedHat® Enterprise Linux Desktop WS 6.2
Open SUSE 12.1
Ubuntu Desktop 11.1

*(Subject to change without any notice)

Regulatory Compliance

BSMI, CE, C-Tick, FCC(Class B)

Dimensions

445mm * 217.5mm * 545mm

Form Factor

5U/Tower

Weight

17kg

Power Supply

1350W 80+ Gold Single Power Supply
(following different configuration by region)

Environment

Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Non operation humidity: 20% ~ 90% (Non condensing)

Accessory Box

1 x ESC1000 G2 User's Guide
1 x Bag of Screws
1 x AC Power Cable
1 x P9X79 WS Support DVD
1 x COM prot Cable

Optional Items

DVD-RW (17G141147005)
(DVD-RW default for North America)
ASUS ESC1000 G2 Ball Bearing Rail Kit
(13GS0K00M040 + 13GS170AM040-1)
Cooler for CPU 150W upgrade kit (13G070795020)
Front Fan (80mm x 25mm) (13G074186020)

Note

* DDR3 1866 can only be supported with Intel® Core™ i7 Processors for LGA2011 Socket and Intel® Xeon® processor E5-1600 v2 product family, refer to www.asus.com for latest memory AVL update

Part List

MB

ASUS P9X79 WS Workstation board

HDD Backplane

1 x SAS/SATA Backplane (BP4LX-TRS8) (60SC00M0-SC0B02)

Front Panel Board

1 x Front I/O Board (FPB-TRS8A) (61-C1SDJ1-01)

CPU Heatsink/ Cooler

1 x 150W CPU Cooler (13G070795020)

Power Supply Unit

1 x 1350W Single Power Supply (0A100-00090100)

HDD Tray

4 x Hot-swap 3.5" HDD trays (13GS1I0AM010-1)

HDD Cage

1 x T50C HDD Cage (13GS1H0AM010-1)

Fan

1 x Rear Fan (120mm x 38mm) (13G074158010)

Fan Holder

3 x Front Fan Holder (13GS1600P040-1)

Optical Drive

1 x DVD-RW (Optional)(17G141147005)
(DVD-RW default for North America)

Cable

2 x SATA 6G CABLE 7P G/F BLA 500MM (14G000130233)
1 x SATA 7Pin TO 7Pin, L=500mm (14G000100101)
1 x WIRE CABLE USB 10P TO 10P ,L=500(14G143083100)
1 x USB3.0 CABLE HSG TO HSG L=600 (14001-000800DP)
1 x AUDIO CABLE 2*5P TO 2*5P HSG (14G143086002)
1 x FAN CABLE 4P/M TO 4P/F, L100MM (14G000015410)
