



ESC8000 G3

Specifications

Processor / System Bus² x Socket R3 (LGA 2011-3)

Intel® Xeon® processor E5-2600 v4 product family (145W)

Intel® Xeon® processor E5-2600 v3 product family(145W)

QPI 6.4 / 8.0 / 9.6 GT/s

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

Core LogicIntel® C612 PCH

MemoryTotal Slots : 24 (4-channel per CPU, 12 DIMM per CPU)

Capacity : Maximum up to 1536GB LRDIMM

Memory Type :

DDR4 2400 /2133 /1866*/1600/1333 RDIMM*¹

DDR4 2400 /2133 /1866*/1600/1333 LRDIMM*¹

DDR4 2400 /2133 /1866*/1600/1333 NVDIMM*¹

Memory Size :

32GB, 16GB, 8GB, 4GB RDIMM

64GB, 32GB LRDIMM

* Please refer to ASUS server AVL for the latest update

Expansion SlotsTotal: 10

Full-length/Full-height

8 x PCI-E 3.0 x16 (x16 Link) + 1 x PCI-E 3.0 x16 (x8 Link)

Half-length/Low-profile

1 x PCI-E 3.0 x8 (x8 Link)

StorageSATA Controller :

Intel® C612

6 x SATA3 6Gb/s ports

1 x M.2 connector (2280/2260/2242)

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

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

LSI® MegaRAID (For Linux/Windows)

(Support Software RAID 0, 1, 10)

SAS Controller :

ASUS PIKE II 3008 8-port SAS HBA card*²

ASUS PIKE II 3108 8-port SAS HW RAID card*²

HDD Bays⁶ x Hot-swap 2.5" HDD Bays

Networking² x Intel® I210AT + 1 x Mgmt LAN

InfiniBandOptional kits:

PEM-FDR

PEB-10G/57840-2S

PEB-10G/57811-1S

GraphicAspeed AST2400 with 32MB VRAM

On Board I/O³ x RJ-45 ports (One for ASMB8-iKVM)

1 x COM port

2 x USB 3.0 ports (Front x 2, Rear x 0)

2 x USB 2.0 ports (Front x 2, Rear x 0)
1 x VGA port

OS Support

Windows® Server 2012 R2
Windows® Server 2012
Windows® Server 2008 Enterprise R2 SP1 64-bit
RedHat® Enterprise Linux
SuSE® Linux Enterprise Server
CentOS
Ubuntu
VMware
Citrix XenServer

*(Subject to change without any notice)

Management Solution

ASWM Enterprise
Default 1 x ASMB8-iKVM for KVM-over-Internet

Regulatory Compliance

BSMI, CE, FCC(Class A)

Dimensions

759mm x 447mm x 130.6mm (3U)

Form Factor

3U

Weight

29.2kg (exluding CPU/memory/HDD/add-on cards)

Power Supply

2+1 Redundant 1600W 80PLUS Platinum Power Supply;

1600W: 100-127/200-240 Vac, 25.8/19 A, 47-63 Hz, Class I

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 MB Support DVD
1 X ASWM Enterprise DVD
1 x ASMB8 SDVD
1 x Bag of Screws
3 x AC Power Cable
16 x GPU air ducts (8 for Intel Xeon Phi; 8 for AMD/Nvidia)
8 x mylar for GPU air ducts for AMD GPU cards
16 x VGA power cable
8 x VGA power cable for Nvidia 300W and above cards

Optional Items

PEM-FDR
PEB-10G/57840-2S
PEB-10G/57811-1S
PIKE II 3108
PIKE II 3008

Note

*1: 2133MT/s@1DPC only
*2: Optional and require extra mini SAS HD to mini SAS cable

Part List

MBASUS Z10PG-D24 Server Board

HDD Backplane1 x SAS/SATA Backplane (BP6LX-R30A) (90SC0450-M0XBNO)

Front Panel Board 1 x Front I/O Board (FPB-R30A) (90SC04T0-M0XBN0)

Power Distribution Board 1 x Redundant Power Supply Power Distribution Board (PDB-R30A) (90SC04N0-M0XBN0)

1 x Power Sharing Board for GPU cards (PSB-R30A) (90SC04V0-M0XBN0)

Midplane/Connection Board/Convert Board 1 x Rear I/O Board (CB-RIO-R30A) (90SC04U0-M0XBN0)

CPU Heatsink/ Cooler 2 x CPU Heatsink (13071-00091800)

Power Supply Unit 3 x 1600W Redundant Power Supply (0A100-00250000)

HDD Tray 6 x 2.5" HDD Tray (13GS120AM021-1)

Fan 8 x System Fans (80mm x 38mm) (13G074187000)
6 x CPU Fans (40mm x 28mm) (13070-00790000)

Air Duct/Mylar 2 x CPU Air Duct Mylar (13SV000EL11011)
1 x DIMM Fan duct (13SV000EL08011) (front side)

GPU Fan duct for PSB:

1 x GPU Fan Duct Mylar-A (13SV000EL10011)
3 x GPU Fan Duct Mylar-B (13SV000EL09011)

Main GPU fan duct (2U/3U):

1 x FAN GPU FAN DUCT A (13SV000EL07011)
1 x FAN GPU FAN DUCT B (13SV000EL06011)
3 x FAN GPU FAN DUCT C (13SV000EL05011)

8 x NVIDIA Tesla /AMD Firepro GPU Air Duct (13GS1U0AM021-2)
8 x Intel Xeon Phi series Co-processor Air Duct (13GS1U0AM050-1)
8 x AMD FAN DUCT MYLAR (13SV0005L12011)

Mounting Rails 1 x Friction rail kit (13SV0006AM0911)

Cable 1 x MINI SAS CABLE,L=780MM (14022-00030000)
2 x MINI SAS CABLE,L=600MM (14022-00020000)
1 x MINI SAS CABLE,L=340MM (14022-00010000)
1 x POWER CABLE 8P TO 8P,655MM (14017-00030000)
1 x SATA SGPIO+ TR+ SMBUS CABLE (14013-00010000)
1 x BP POWER CABLE 4P TO 4P,300MM (14017-00040000)
1 x FPB CAB2*8/1*10+1*6+2*10 610MM (14011-00120000)
1 x VGA CABLE 2*8 TO 2*8 L=580MM (14011-00110000)
16 x VGA PWR CABLE 6P TO 6+2P,L=220 (14017-00020100)
8 x K80 VGA PWR CABLE 8PTO6P,L=220 (14017-00070000)
3 x PDB PWR CABLE 24P TO 24P,170MM (14017-00050000)
1 x COM PORT CABLE, L=580MM (14015-00020000)
4 x FAN CABLE, L=100MM (14011-00100100)
2 x FAN CABLE,L=200MM (14011-00100200)
1 x LAN CABLE (SHILDING),L=360MM (14023-00010200)
1 x 12P SMBUS+12VSB_ATX+ PWROK (14011-00130100)

- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
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