



## ASUS ESC8000 G3 QUICK INTRODUCTION WITH AMD FIREPRO™ S-SERIES GPUS



### Hybrid Computing Power Design

Maximum GPU utilizations for demanding computing power

### Massive PCI-E for rich expansion

Up to 8 PCI-E Gen3 x16 AMD FirePro™ S-Series GPUs  
1 PCI-E Gen3 x8 for low-profile HBA/ASUS proprietary interconnection cards

### Optimized Thermal Solution

Front parallel redundant fan placement  
Dedicated Air-tunnel for individual GPUs

### Flexibility of Hyper Interconnection

Optional Infiniband FDR /10G upgrade kit

### Easy Maintenance

Front I/O, Hot swappable of HDD & PSU  
2+1 1600W CRPS Redundant PSU

### M.2 (NGFF) Connector

For independent OS drive

	ASUS ESC8000 G3
<b>Form Factor</b>	3U Rack-mount
<b>Expansion Slot</b>	8 PCI-E x 16 (x16 Gen3 Link) 1 PCI-E x 16 (x8 Gen3 Link) 1 PCI-E x 8 (x8 Gen3 Link)
<b>Processor</b>	Intel® Xeon® processor E5-2600 v3 product family
<b>Memory</b>	24 x DDR4 2133 RDIMMs
<b>Chipset</b>	Intel® C612 Chipset
<b>Networking</b>	2 I210 LAN + 1 Mgmt LAN InfiniBand FDR/10G kit* 1 (option)
<b>HDD Bay</b>	6x 2.5 Hot-Swap HDD/SSD Bays
<b>PSU</b>	2+1 Redundant 1600W 80Plus Platinum Level Power Supply
<b>Dimension</b>	759.4mm * 447mm * 130.6mm



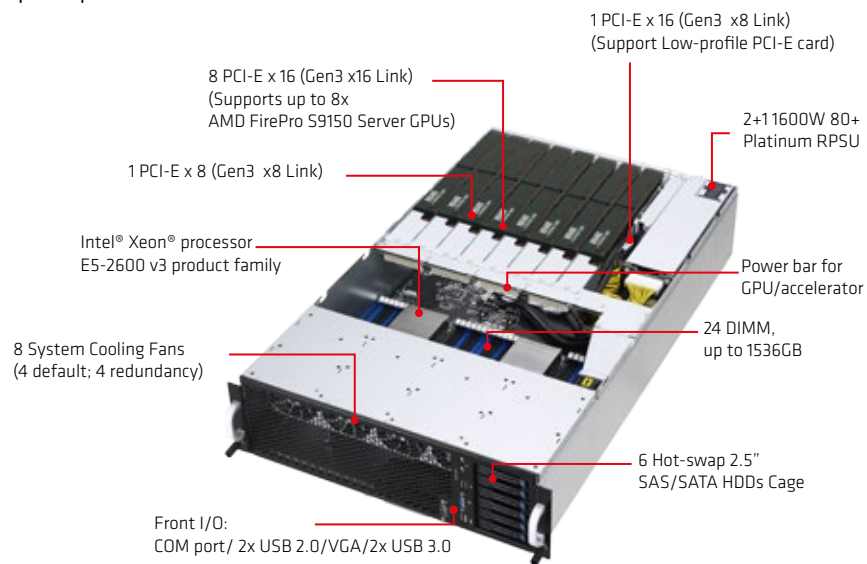


## AMD FIREPRO™ S-SERIES GPU ADVANTAGE

Designed for large-scale multi-GPU support and unmatched compute performance

### AMD FirePro™ S9150 Server GPU

- Offers the highest peak double-precision performance of any single server GPU<sup>1</sup>
- Based on the AMD Graphics Core Next (GCN) GPU architecture
- Offers the highest performance-per-watt<sup>1</sup>



### Quick Overview of AMD FirePro™ S-Series GPUs Qualified for Asus ESC8000 G3

	AMD FirePro S7000	AMD FirePro S9000	AMD FirePro S9050	AMD FirePro S9100	AMD FirePro S9150
GCN Stream Processors	1280	1792	1792	2560	2816
Single-Precision (GFLOPS)	2400	3230	3230	4220	5070
Double-Precision (GFLOPS)	152	806	806	2110	2530
On-board Memory	4GB GDDR5	6GB GDDR5	12GB GDDR5	12GB GDDR5	16GB GDDR5
ECC	No	Yes	Yes	Yes (external)	Yes (external)
Memory Bandwidth (GB/s)	154	264	264	320	320
Interface	PCIe 3.0, Single slot	PCIe 3.0, Dual slot	PCIe 3.0, Dual slot	PCIe 3.0, Dual slot	PCIe 3.0, Dual slot
Max Power	150W	225W	225W	225W	235W
Cooling	Passive Heatsink	Passive Heatsink	Passive Heatsink	Passive Heatsink	Passive Heatsink

**For more information on AMD FirePro™ Server GPU solutions, please visit <http://www.amd.com/en-us/solutions/professional/cloud-data-center>**

1. AMD FirePro™ S9150 max power is 235W and delivers up to 2.53 TFLOPS peak double and up to 5.07 peak single precision floating point performance. Nvidia's highest performing server cards in the market as of June 2014 are the Tesla K40, max power of 235W, with up to 1.43 TFLOPS peak double and up to 4.29 peak single, and the K10, max power 225W, with up to 4.58 TFLOPS peak single and 190 GFLOPS peak double precision.

