

ESC4000 DHD G4

High-density, Low-latency 4 GPUs, 8 NVMe SSDs 1U server



1U



2



16

ASUS ESC4000 DHD G4 was designed to maximum density and minimum latency, With the 4 GPUs and all flash array 8 NVMe drives plus dual 10G onboard, it's a powerful but agile machine.

FEATURE

- PCI-E x16 Gen3 supported for 4 GPUs, passive and active
- 4 PCIe M.2 support
- 2 x PCIe x16 LP/HL Expansion Slots in rear for high speed NIC
- Rack-optimized Design
- Total 8 NVMe drives

Dual Processors, High Density, Maximum GPU in 1U

- Supports up to 4 double-deck active & passive GPUs in 1U
- Single Root for Maximum GPU utilizations on AI application
- High memory capacity for cache server usage

High Speed Transmission & Low Latency

Onboard Dual 10G Base-T LAN ports
Support Dual up to 100Gbps LAN cards (option)
4x 2.5" NVMe SSD & 4x M.2 22110 NVME SSD
All NVME Low latency for Telecom on 5G application

High Speed Transmission & Low Latency

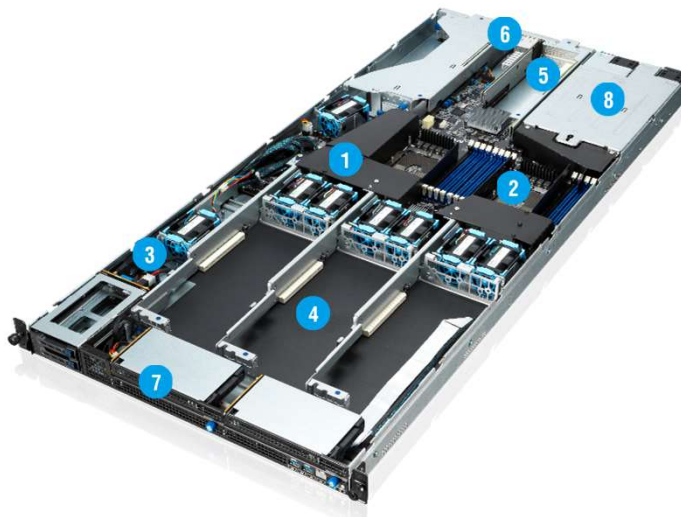
- 4 x PCI-E Gen3 x16 slots for FH/FL add-on cards
- 2 x PCI-E Gen3 x16 slots for LP/HL add-on cards

Comprehensive IT infrastructure management solution

ASMB9-iKVM and ASUS Control Center (ACC*)

Target market

- Telecom/edge server
- AI/ML application
- Scientific & Research



1. 16 x DIMM, DDR4-2933/2666/2400, RDIMM, LRDIMM, LRDIMM 3DS
2. Intel® Xeon® Scalable Processor Family (150W)
3. 4 M.2 (NGFF), 22110/2280/2260/2242
4. 4 x PCI-E x16 (Gen3 x16 link) for GPUs
5. 2 x PCI-E x16 (Gen3 x16 link) LP/HL rear
6. 1 x Dual 10G RJ45 LAN on board
7. 4 x 2.5" Hot-Swap NVMe SSD Bays
8. 1+1 2200W 80 PLUS Platinum CRPS PSU

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SPECIFICATION

Processor Support.		2 x Socket P (LGA 3647) 1st and 2nd Gen Xeon® Scalable Processor Family
Core Logic		Intel® C621 PCH
Memory	Total Slots	16 (6-channel per CPU, 8 DIMM per CPU)
	Capacity	Maximum up to 2048GB
	Memory Type	DDR4 2933/2666/2400 RDIMM/LR-DIMM/LR-DIMM 3DS *Refer to ASUS server AVL for the latest update
	Memory Size	32GB, 16GB, 8GB (RDIMM), 64GB, 32GB (LRDIMM), 128GB, 64GB (LRDIMM 3DS) *Refer to ASUS server AVL for the latest update
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	4+2
	Slot Type	2 x PCI-E x16 (Gen3 x16 link), LP, HL 4 x PCI-E x16 (Gen3 x16 link), FH, FL
Disk Controller	SATA Controller	- 4 x SATA 6Gb/s ports (8 by 2 mini-SAS Connector) Intel® RSTe (Support software RAID 0, 1, 10 & 5) Intel® VROC (for Windows only; Support software RAID 0, 1, 10 & 5)
	PCIe drives	-4 x Hotswap 2.5" NVMe SSD -4 x PCIe M.2 SSD on board (up to 22110) Intel® RSTe (Support software RAID 0, 1, 10 & 5) Intel® VROC (for Windows only; Support software RAID 0, 1, 10 & 5)
Storage Bays	I = internal	4 x 2.5" Hot-swap Storage Device Bays (4 x NVMe Supported)
	A or S will be hot-swappable	4 x M.2 (22110, 2280, 2260, 2242) (Support PCIe RAID)
Networking	LAN	1 x Dual Port Intel X550 10G LAN Controller, 1 x Management Port
Graphic	VGA	Aspeed AST2500 64MB
Front I/O Ports		2 x USB 3.2 Gen1 ports
Rear I/O Ports		2 x USB 3.2 Gen1 ports, 1 x VGA port, 2 x RJ-45 10G LAN ports, 1 x RJ-45 Mgmt LAN port
Switch/LED		Front Switch/LED: 1 x Q-Code, 1 x Power switch/LED, 1 x Location LED, 1 x Reset switch, 4 x M.2 Access LED, 4 x SSD Access LED, 1 x Message LED,
OS Support		Windows® Server 2019, Windows® Server 2016 RedHat® Enterprise Linux, SuSE® Linux Enterprise Server CentOS, Ubuntu, Vmware
Management Solution	Software	ASUS Control Center (Classic)
	Out of Band Remote Management	On-Board ASMB9-iKVM for KVM-over-IP
Dimension		998mm x 439.5mm x 43.6mm (1U) 39.29" x 17.3" x 1.72"
Net Weight Kg (CPU, DRAM & HDD not included)		20.5 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		28.5 kg
Power Supply (following different configuration by region)		1+1 Redundant 2200W 80 PLUS Platinum Power Supply Rating: 100-127/200-240 Vac, 14A/12.6 A, 47-63 Hz, Class I
Environment		Operation temperature: 10°C ~ 35°C (conditional) Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)