ESC4000 DHD G4
High-density, Low-latency 4 GPUs, 8 NVMe SSDs 1U server

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
- Slot in rear for high speed NIC
- Rack-optimized Design
- Total 8 NVMe drives

**Target market**
- Telecom/edge server
- AI/ML application
- Scientific & Research

**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®)

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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
### 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
- **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**
- **A or S will be hot-swappable**
- 4 x 2.5” Hot-swap Storage Device Bays (4 x NVMe Supported)
  - 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 RI-45 10G LAN ports, 1 x RI-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
- 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 l

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