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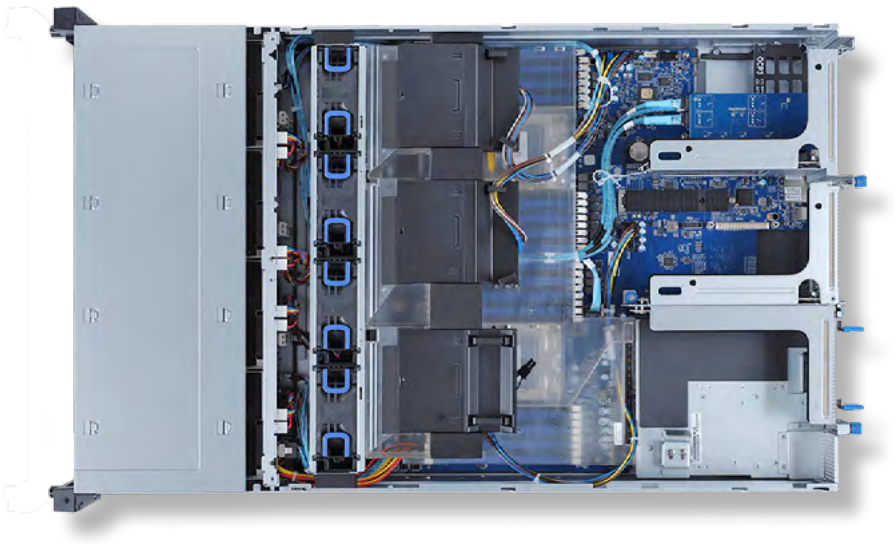
FormatServer THOR E225

AMD EPYC™ 7003

OVERVIEW

- Supports up to 3 x double slot GPU cards
- Supports GRAID SupremeRAID NVMe/NVMe-oF RAID Card
- Dual AMD EPYC™ 7003 series processor family
- 8-Channel RDIMM/LRDIMM DDR4 per processor, 32 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 8 x 3.5" SATA/SAS hot-swappable HDD/SSD bays
- 4 x 3.5" SATA/SAS/Gen4 NVMe hot-swappable HDD/SSD bays
- Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 4 x PCIe Gen4 x16 expansion slots
- 1 x OCP 3.0 Gen4 x16 mezzanine slot
- 1 x OCP 2.0 Gen3 x8 mezzanine slot
- 2000W (240V) 80 PLUS Platinum redundant power supply



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CPU	AMD EPYC™ 7003 series processor family Dual processors, 7nm Up to 64-core, 128 threads per processor cTDP up to 240W Conditional support 280W *NOTE: If only 1 CPU is installed, some PCIe or memory functions might be unavailable* Compatible with AMD EPYC™ 7002 series processor family
Socket	Socket SP3
Chipset	System on Chip
Memory	32 x DIMM slots DDR4 memory supported only 8-Channel memory per processor architecture RDIMM modules up to 128GB supported LRDIMM modules up to 128GB supported 3DS RDIMM/LRDIMM modules up to 256GB supported Memory speed: Up to 3200
LAN	2 x 1GbE LAN ports (1 x Intel® I350-AM2) 1 x 10/100/1000 management LAN
Video	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp
Audio	N/A
Storage	Total 12 x 3.5"/2.5" SATA/SAS/Gen4 NVMe hot-swappable HDD/SSD bays 8 x SATA/SAS ports, 4 x SATA/Gen4 NVMe hybrid ports SAS card is required for SAS devices support
SAS	N/A
RAID	N/A
Peripheral Drives	N/A
Expansion Slots	Riser Card #1: - 1 x PCIe x16 slot (Gen4 x16), FHFL Riser Card #2: - 2 x PCIe x16 slots (Gen4 x16), FHFL (TOP) and FHHL Riser Card #3: - 1 x PCIe x16 slot (Gen4 x16), FHFL - 1 x PCIe x16 slot (Gen4 x16); Occupied by 4 x NVMe Gen4 HBA 1 x OCP 3.0 mezzanine slot with PCIe Gen4 x16 bandwidth from CPU_0 Supported NCSI function 1 x OCP 2.0 mezzanine slot with PCIe Gen3 x8 bandwidth (Type1, P1, P2) Supported NCSI function 1 x M.2 slot: - M-key - PCIe Gen4 x4 - Supports NGFF-2242/2260/2280/22110 cards - CPU TDP is limited to 225W if using M.2 device *NOTE: Support is not provided for mixed GPU populations*

Internal I/O	1 x M.2 slot 1 x USB 3.0 header 1 x COM header 1 x TPM header 1 x Front panel header 1 x HDD back plane board header 1 x IPMB connector 1 x Clear CMOS jumper 1 x BIOS recovery jumper
Front I/O	2 x USB 3.0 1 x Power button with LED 1 x ID button with LED 1 x Reset button 1 x NMI button 1 x System status LED 1 x HDD activity LED 2 x LAN activity LEDs
Rear I/O	2 x USB 3.0 1 x VGA 2 x RJ45 1 x MLAN 1 x ID button with LED
Backplane I/O	8 x SATA/SAS and 4 x SATA/NVMe ports Speed and bandwidth: SATA 6Gb/s or SAS 12Gb/s or PCIe Gen4 x4 per port
TPM	1x TPM header with SPI interface (TPM2.0 supported)
Power Supply	2 x 2000W redundant PSU 80 PLUS Platinum AC Input: - 100-120V~/ 12A, 50-60Hz - 180-240V~/ 10A, 50-60Hz DC Input: - 240Vdc/ 10A DC Output: - Max 1000W/ 100-120V~ + 12.2V/ 81.5A + 12Vsb/ 2.5A - Max 1600W/ 180-199V~ + 12.2V/ 131A + 12Vsb/ 2.5A - Max 1800W/ 200-220V~ + 12.2V/ 147.5A + 12Vsb/ 2.5A - Max 2000W/ 221-240V~ + 12V/ 163.5A + 12Vsb/ 2.5A
System Fans	4 x 80x80x38mm (16,300rpm)
Operating Properties	Operating temperature: 10°C to 35°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing) Ambient temperature limited to 30°C if using 280W CPU
Dimensions (WxHxD, mm)	2U 438 x 87 x 730 mm
Packaging Dimensions	982 x 588 x 268 (mm)
Packaging Content	1 x FormatServer THOR E225 2 x CPU heatsinks 1 x Rail kit