GIGABYTE[™]

G294-S41-AAP2

HPC/AI Server - 2U DP 4 x PCIe Gen5 GPUs





Key Features

- Supports up to 4 x Dual slot Gen5 GPUs
- Supports 4 x NVIDIA H200 NVL PCIe GPUs
- Dual Intel[®] Xeon[®] 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM / MRDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 8 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x FHFL PCIe Gen5 x16 or 8 x FHFL PCIe Gen5 x8 slots for GPUs
- 2 x LP PCIe Gen5 x16 slots
- Dual 3000W 80 PLUS Titanium redundant power supply

Applications

AI Platform, AI Training Server, AI Inference Server, Visual Computing, High-Performance Computing Server...

Cn	oci	fica	tion

Dimensions2U (W448 x H87.5 x D850 mm)PC Expansion SNE PLC Gen5 x16 or 3x HFL PCIe Gen5 x					
MotherboardMS44-G20The system supports 4 x NVIDA H200 NVL PCIe GPUs at 25°C ambient, arranged as four individual GPUs without NVLink bridg support. The system supports 4 x NVIDA H200 NVL PCIe GPUs at 25°C ambient, arranged as four individual GPUs without NVLink bridg support. The system support is only violated with a unit of PU mode.CPUIntel® Xeon® 6 00-Series Processors Dual processor, TDP up to 250W - X 25°C ambient, TDP up to 350WIO PortsRear: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJA5, 1 x MLANSOS CompatibilityOS Support ListTDPTPIntel® Xeon® 6 00-Series ProcessorsOS CompatibilityOS Support ListTPM1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PROT connector (only enabled on ROT SKU)Socket2 x LGA 4710 (Socket E2)TPM1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PROT connector (only enabled on ROT SKU)Memory8-Channel DDFS RDIMM/RDIMM, 24 x DIMMS [I] [RDIMM] Up to 6400 MT/s (LDPC), 5200 MT/s (2DPC) [MRDIMM] Up to 6400 MT/s (LDPC), 5200 MT/s (2DPC) [NRDIMM] Up to 6400 MT/s (LDPC), 5200 MT/s (2DPC) [NRDIMM] Up to 6400 MT/s (LDPC), 5200 MT/s (2DPC) [NRDIMM] Up to 6400 MT/s (LD	Dimensions	2U (W448 x H87.5 x D850 mm)		2 x LP PCIe Gen5 x16 *The system supports 4 x NVIDIA H200 NVL PCIe GPUs at 25°C ambient, arranged as four individual GPUs without NVLink bridge support.	
CPU Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors Dual processor, TDP up to 250W - At 25°C ambient, TDP up to 350W IO Ports Rear: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN SO Compatibility OS Suggort List Backplane Board PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s Socket 2 x LGA 4710 (Socket E2) TPM 1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PROT connector (only enabled on ROT SKU) Chipset System on Chip Power Supply Dual 3000W 80 PLUS Titanium redundant power supply AC Input: 100-240V Memory S-Channel DDR5 RDIMM/MRDIMM, 24 x DIMMS ^{III} MRDIMM Up to 6400 MT/s (LDPC), 5200 MT/s (2DPC) (MRDIMM are enabled on RASPEED® AST2600 - 1 x UGA port System Fans 2 x 80x80x80m (18,700/15,100rpm) 6 x 80x80x80m (17,500/15,000rpm) Video Integrated in ASPEED® AST2600 - 1 x VGA port Operating: - 40°C to 63°C, 20% to 89% (non-condensing) Non-operating: - 40°C to 63°C, 20% to 95% (non-condensing) Non-operating: - 40°C to 63°C,	Motherboard	MS44-G20			
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I21 MRDIMMs are only supported with Intel® Xeon® 6 Processors with P- cores and in a IDPC configuration.System Fans2 x 80x80x80mm (18,700/15,100rpm) 6 x 80x80x80mm (17,500/15,000rpm)LAN2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LANOperating PropertiesOperating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing) 			,		
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