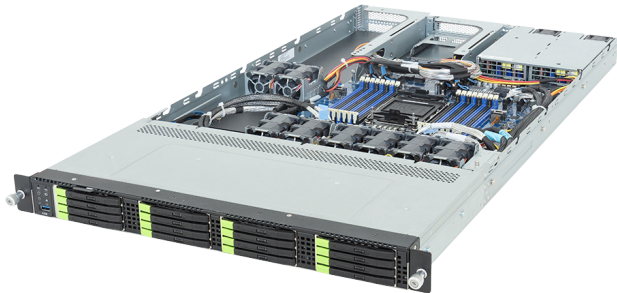


R164-SG6-AAJ1

Rack Server - 1U UP 1 x PCIe Gen5 GPU



Key Features

- Supports 1 x Dual slot Gen5 GPU
- Single Intel® Xeon® 6 Processors with 136 PCIe lanes, LGA 4710
- 8-Channel DDR5 RDIMM / MRDIMM, 16 x DIMMs
- Dual ROM Architecture
- 16 x E3.S Gen5 NVMe hot-swap bays
- 2 x M.2 slots with PCIe Gen5 x2 interface
- 1 x FHFL PCIe Gen5 x16 slot for GPUs
- 1 x FHFL PCIe Gen5 x16 slot
- 1 x FHHL PCIe Gen5 x16 slot
- 1 x OCP NIC 3.0 PCIe Gen5 x16 slot
- 2 x 2000W 80 PLUS Titanium redundant power supplies

Applications

AI Platform, AI Inference Server, Visual Computing, Networks Server, Servers for Hybrid/Private Cloud...

Specification

Dimensions	1U (W438 x H43.5 x D815 mm)	PCIe Expansion Slots	1 x FHFL PCIe Gen5 x16, for GPUs 1 x FHFL PCIe Gen5 x16 1 x FHHL PCIe Gen5 x16 1 x OCP NIC 3.0 PCIe Gen5 x16, Support NCSI
Motherboard	MSG4-GU1	I/O Ports	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 1 x MLAN
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Single processor, TDP up to 350W	Backplane Board	PCIe Gen5 x4
OS Compatibility	OS Support List	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PRoT connector (only enabled on RoT SKU)
Socket	1 x LGA 4710 (Socket E2)	Power Supply	2 x 2000W 80 PLUS Titanium redundant power supplies AC Input: 100-240V
Chipset	System on Chip	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
Memory	8-Channel DDR5 RDIMM / MRDIMM, 16 x DIMMs [RDIMM] Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s ^[1] ^[1] MRDIMMs are only supported with Intel® Xeon® 6 Processors with P-cores and in a 1DPC configuration.	System Fans	8 x 40x40x56mm (32,000rpm)
LAN	1 x 10/100/1000 Mbps Management LAN	Operating Properties	Operating: 10°C~35°C, 8%~80% (non-condensing) Non-operating: -40°C~60°C, 20%~95% (non-condensing)
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP	Packaging Content	1 x R164-SG6-AAJ1 1 x CPU heatsink 1 x Mini-DP to D-Sub cable 1 x GPU power cable (12VHPWR, 550mm) 2 x Carriers 1 x 2-Section Rail kit
Storage	Front hot-swap: 16 x E3.S Gen5 NVMe ^[1] Internal M.2: 2 x M.2 (2280/22110), PCIe Gen5 x2 ^[1] Please select CPUs with 136 PCIe lanes to enable all NVMe support.	Ordering Part Numbers	6NR164SG6DR000AAJ1*
RAID	Require RAID add-in cards Onboard VROC key header	Optional Parts	- 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R - Cable Management Arm: 25HB1-R18300-K0R



Learn more at: <https://www.gigabyte.com/Enterprise>

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