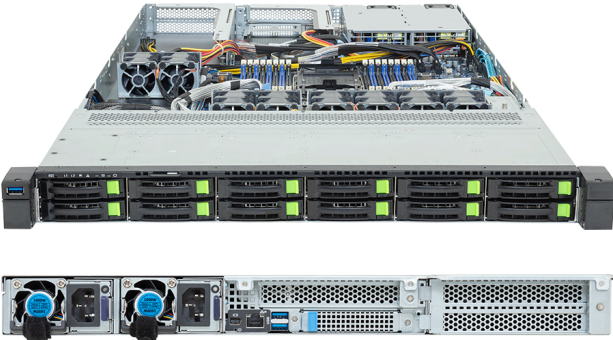


R164-SG5-AAV1

Rack Server - Intel® Xeon® 6700/6500-Series Processors R1S -
1U UP 1 x PCIe Gen5 GPU



Key Features

- Supports 1 x dual-slot Gen5 GPU
- Single Intel® Xeon® 6700/6500-Series Processors with 136 PCIe lanes
- 8-Channel DDR5 RDIMM/MRDIMM per CPU with 16 x DIMMs
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 1 x M.2 slot with PCIe Gen5 x2
- 1 x M.2 slot with PCIe Gen5 x2, **shared with SATA**
- 1 x FHFL PCIe x16 slot with Gen5 x16 lanes for GPUs
- 1 x FHFL PCIe x16 slot with Gen5 x16 lanes
- 1 x FHHL PCIe x16 slot with Gen5 x16 lanes
- 1 x OCP NIC 3.0 PCIe Gen5 x16 slot
- 1+1 1600 W 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 x16 (Gen5 x16), for GPUs 1 x FHFL x16 (Gen5 x16) ^[1] 1 x FHHL x16 (Gen5 x16) 1 x OCP NIC 3.0 (Gen5 x16), Support NCSI
Motherboard	MSG4-GU1		^[1] Blocked when a Dual slot GPU is installed.
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors with 136 PCIe lanes - Intel® Xeon® 6500-Series Processors with 136 PCIe lanes Single processor, TDP up to 350 W	I/O Ports	Front: 1 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x Mini-DP, 1 x MLAN
OS Compatibility	OS Support List	TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012 1 x PRoT connector (only enabled on RoT SKU)
Socket	1 x LGA 4710 (Socket E2)	Power Supply	1+1 1600 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V
Chipset	System on Chip	System Fans	8 x 40x40x56mm
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 supported only on select Intel® Xeon® 6 processors with P-cores and only in a 1DPC configuration.	Operating Properties	Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
LAN	1 x 10/100/1000 Mb/s Management LAN	Packaging Content	1 x R164-SG5-AAV1 1 x CPU heatsink 1 x Mini-DP to D-Sub cable 1 x GPU power cable (16-pin, 550mm) 2 x Carriers 1 x 2-Section Rail kit
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP	Ordering Part Numbers	6NR164SG5DR000AAV1*
Storage	Front hot-swap: 12 x 2.5" Gen5 NVMe/SATA/SAS-4 ^[1] Internal M.2: 1 x M.2 (2280/22110), PCIe Gen5 x2 1 x M.2 (2280/22110), PCIe Gen5 x2, shared with SATA ^[1] SAS card is required to support SAS drives.	Optional Parts	- 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R - Cable Management Arm: 25HB1-R18300-K0R
RAID	Require RAID add-in cards Onboard VROC key header		



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