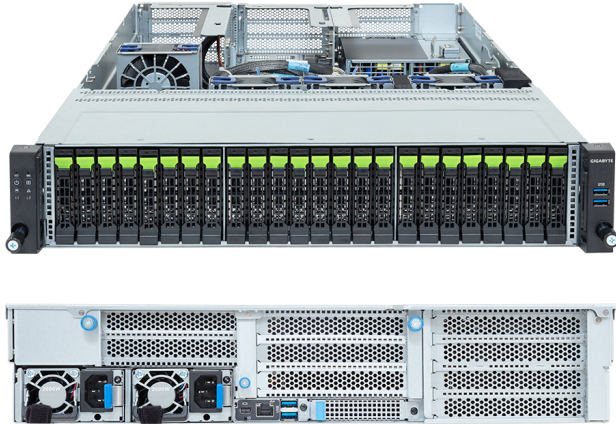


# R264-SG3-AAJ1

Rack Server - Intel® Xeon® 6 - 2U UP 24-Bay Gen5 NVMe/SATA/SAS-4



## 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, 16 x DIMMs
- 24 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 2 x M.2 slots with PCIe Gen5 x2 interface
- 1 x FHFL PCIe Gen5 x16 slot for GPUs
- 1 x OCP NIC 3.0 PCIe Gen5 x16 slot
- 1+1 2000W 80 PLUS Titanium redundant power supplies

## Applications

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

## Specification

|                         |                                                                                                                                                                                                                                                                            |                              |                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>       | 2U (W438 x H87.5 x D815 mm)                                                                                                                                                                                                                                                | <b>RAID</b>                  | Require RAID add-in cards<br>Onboard VROC key header                                                                                                 |
| <b>Motherboard</b>      | MSG4-GU1                                                                                                                                                                                                                                                                   | <b>PCIe Expansion Slots</b>  | 1 x FHFL PCIe Gen5 x16, for GPUs<br>1 x OCP NIC 3.0 PCIe Gen5 x16, Support NCSI                                                                      |
| <b>CPU</b>              | Intel® Xeon® 6 Processors<br>- Intel® Xeon® 6700-Series Processors with 136 PCIe lanes<br>- Intel® Xeon® 6500-Series Processors with 136 PCIe lanes<br>Single processor, TDP up to 350W                                                                                    | <b>I/O Ports</b>             | <b>Front:</b><br>2 x USB 3.2 Gen1<br><b>Rear:</b><br>2 x USB 3.2 Gen1, 1 x Mini-DP, 1 x MLAN                                                         |
| <b>OS Compatibility</b> | <a href="#">OS Support List</a>                                                                                                                                                                                                                                            | <b>TPM</b>                   | 1 x TPM header (SPI), Optional TPM2.0 kit: CTM012<br>1 x PRoT connector (only enabled on RoT SKU)                                                    |
| <b>Socket</b>           | 1 x LGA 4710 (Socket E2)                                                                                                                                                                                                                                                   | <b>Power Supply</b>          | 1+1 2000W 80 PLUS Titanium redundant power supplies<br>AC Input: 100-240V                                                                            |
| <b>Chipset</b>          | System on Chip                                                                                                                                                                                                                                                             | <b>System Fans</b>           | 3 x 80x80x38mm<br>1 x 80x80x56mm                                                                                                                     |
| <b>Memory</b>           | 8-Channel DDR5 RDIMM/MRDIMM, 16 x DIMMs<br>[RDIMM] Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC)<br>[MRDIMM] Up to 8000 MT/s <sup>[1]</sup><br><br><sup>[1]</sup> MRDIMMs are supported only on select Intel® Xeon® 6 processors with P-cores and only in a 1DPC configuration. | <b>Operating Properties</b>  | Operating: 10°C to 35°C, 8% to 80% (non-condensing)<br>Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)                                     |
| <b>LAN</b>              | 1 x 10/100/1000 Mbps Management LAN                                                                                                                                                                                                                                        | <b>Packaging Content</b>     | 1 x R264-SG3-AAJ1<br>1 x CPU heatsink<br>1 x Mini-DP to D-Sub cable<br>1 x GPU power cable (16-pin, 450mm)<br>2 x Carriers<br>1 x 2-Section Rail kit |
| <b>Video</b>            | Integrated in ASPEED® AST2600<br>- 1 x Mini-DP                                                                                                                                                                                                                             | <b>Ordering Part Numbers</b> | 6NR264SG3DR000AAJ1*                                                                                                                                  |
| <b>Storage</b>          | <b>Front hot-swap:</b><br>24 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup><br><b>Internal M.2:</b><br>2 x M.2 (2280/22110), PCIe Gen5 x2<br><br><sup>[1]</sup> Storage card is required to support SATA and SAS drives.                                                       | <b>Optional Parts</b>        | - 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R<br>- Cable Management Arm: 25HB1-R18300-K0R                                                    |



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

\* All specifications are subject to change without notice. Please visit our website for the latest information.

\* All trademarks and logos are the properties of their respective holders.

© 2026 Giga Computing Technology Co., Ltd. All rights reserved.

Last updated: Jan 30, 2026

Designed by

