

# R163-S32-AAH1

## Rack Server - 1U UP 12-Bay Gen4 NVMe/SATA/SAS



### Features

- 4th/5th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Single processor, LGA4677
- 8-Channel RDIMM DDR5 per processor, 16 x DIMMs
- Dual ROM Architecture
- 1 x 1Gb/s LAN port (Intel® I210-AT)
- 1 x Dedicated management port
- 12 x 2.5" Gen4 NVMe/SATA/SAS hot-swappable bays
- 1 x M.2 slot with PCIe Gen3 x4 interface
- 2 x FHHL PCIe Gen5 x16 slots
- 2 x OCP 3.0 Gen5 x16 slots
- 1+1 1300W 80 PLUS Titanium redundant power supplies

### Specification

|                        |  |                             |   |
|------------------------|--|-----------------------------|---|
| <b>Dimensions</b>      | 1U (W438 x H43.5 x D710 mm)  | <b>Rear I/O</b>             | 2 x USB 3.2 Gen1, 1 x Mini-DP, 1 x RJ45, 1 x MLAN   |
| <b>Motherboard</b>     | MS33-DC0   | <b>Backplane I/O</b>        | PCIe Gen4 x4 or SATA 6Gb/s or SAS 12Gb/s  |
| <b>CPU</b>             | 5th Generation Intel® Xeon® Scalable Processors<br>4th Generation Intel® Xeon® Scalable Processors<br>Intel® Xeon® CPU Max Series<br>Single processor, TDP up to 350W            | <b>TPM</b>                  | 1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)   |
| <b>Socket</b>          | 1 x LGA 4677 (Socket E)  | <b>Power Supply</b>         | 1+1 1300W 80 PLUS Titanium redundant power supplies<br>AC Input: 100-240V   |
| <b>Chipset</b>         | Intel® C741 Chipset  | <b>System Management</b>    | Aspeed® AST2600 management controller<br>GIGABYTE Management Console (AMI MegaRAC SP-X)   |
| <b>Memory</b>          | 8-Channel DDR5 memory, 16 x DIMM slots<br>RDIMM modules up to 128GB supported<br>3DS RDIMM modules up to 256GB supported<br>Memory speed: Up to 5600 MHz (1DPC), 4400 MHz (2DPC) | <b>OS Compatibility</b>     | Windows Server 2019 / 2022<br>RHEL 8.6 / 8.7 / 9.0 / 9.1 / 9.2 / 9.3 (x64)<br>SLES 15 SP4 / SP5 (x64)<br>Ubuntu 22.04 / 22.04.1 / 22.04.2 / 22.04.3 LTS (x64)<br>VMware ESXi 7.0 Update 3o / 8.0 / 8.0 Update 1 / 8.0 Update 2<br>Citrix Hypervisor 8.2 LTSR CU1  |
| <b>LAN</b>             | 1 x 1Gb/s LAN ports (1 x Intel® I210-AT)<br>Supported NCSI function<br>1 x 10/100/1000 management LAN  | <b>System Fans</b>          | 4 x 40x40x56mm (29,700rpm), 2 x 40x40x28mm (25,000rpm)  |
| <b>Video</b>           | Integrated in Aspeed AST2600<br>2D Video Graphic Adapter with PCIe bus interface<br>1920x1200@60Hz 32bpp, DDR4 SDRAM   | <b>Operating Properties</b> | Operating temperature: 10°C to 35°C<br>Operating humidity: 8-80% (non-condensing)<br>Non-operating temperature: -40°C to 60°C<br>Non-operating humidity: 20%-95% (non-condensing)   |
| <b>Storage</b>         | 12 x 2.5" Gen4 NVMe/SATA/SAS hot-swappable bays<br>SAS card is required for SAS devices support  | <b>Packaging Content</b>    | 1 x R163-S32, 1 x CPU heatsink, 1 x Mini-DP to D-Sub cable,<br>3 x Carrier clips, 1 x 2-Section Rail kit  |
| <b>RAID</b>            | Intel® SATA RAID 0/1/10/5  | <b>Reference Numbers</b>    | Barebone package (4th/5th Gen): 6NR163S32DR000ABH1*<br>Barebone package (4th Gen): 6NR163S32DR000AAH1*<br>- Motherboard: 9MS33DC0UR-000<br>- 2-Section Rail kit (CMA not supported): 25HB2-3A0203-K0R<br>- CPU heatsink: 25ST1-4Z3200-S7R<br>- Mini-DP to D-Sub cable: 25CRN-200801-K1R<br>- Power supply: 25EP0-213005-G1S |
| <b>Expansion Slots</b> | 2 x FHHL PCIe Gen5 x16 slots<br>2 x OCP 3.0 Gen5 x16 slots - Supporte NCSI function<br>1 x M.2 slot (M-key, PCIe Gen3 x4, NGFF-2280/22110)                                       |                             |   |
| <b>Front I/O</b>       | 1 x USB 3.2 Gen1   |                             |   |



Learn more about GIGABYTE server, visit <https://www.gigacomputing.com>

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