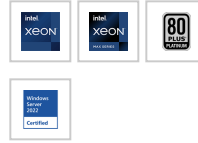


# R163-S32 (rev. AAB1) | (rev.AAC1) | (rev.AAC2)

Rack Server - 4th Gen Intel® Xeon® - 1U UP 12-Bay SATA/SAS | Application: **Networking**

- 4th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Single processor, LGA 4677
- 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" 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 800W (240V) 80 PLUS Platinum redundant power supplies



OVERVIEW **SPECIFICATIONS** SUPPORT RESOURCES BUY

R163-S32 (rev. AAB1)

## Dimensions (WxHxD, mm)

1U  
438 x 43.5 x 710

## Motherboard

MS33-DC0

## CPU

4th Generation Intel® Xeon® Scalable Processors  
Intel® Xeon® CPU Max Series  
Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor, Intel® Xeon® Silver Processor  
Single processor, CPU TDP up to 350W

## Socket

1 x LGA 4677  
Socket E

## Chipset

Intel® C741 Chipset

## Memory

16 x DIMM slots  
DDR5 memory supported only  
8-Channel memory architecture  
RDIMM modules up to 96GB supported  
3DS RDIMM modules up to 256GB supported  
Memory speed: Up to 4800 MHz (1DFC), 4400 MHz (2DFC)

## LAN

**Rear side:**  
1 x 1Gb/s LAN port (1 x Intel® I210-AT)  
Supports NCSI function

1 x 10/100/1000 management LAN

## Video

Integrated in Aspeed® AST2600  
2D Video Graphic Adapter with PCIe bus interface  
1920x1200@60Hz 32bpp, DDR4 SDRAM

## Storage

**Front side:**  
12 x 2.5" SATA/SAS hot-swappable bays

**SAS card is required for SAS devices support**

## SAS

Depends on SAS Add-on card

## RAID

Intel® SATA RAID 0/1/10/5

## Expansion Slots

**Riser Card CRS1010:**  
- 1 x PCIe x16 (Gen5 x16) FHHL slot

**Riser Card CRS101P:**  
- 1 x PCIe x16 (Gen5 x16) FHHL slot

2 x OCP 3.0 slots with PCIe Gen5 x16 bandwidth  
Support NCSI function

1 x M.2 slot:  
- M-key  
- PCIe Gen3 x4, from PCH  
- Supports 2280/22110 cards

## Internal I/O

1 x M.2 slot  
1 x TPM header  
1 x VROC connector  
2 x OCP 3.0 slots

## Front I/O

1 x USB 3.2 Gen1  
1 x Power button with LED  
1 x ID button with LED  
1 x NMI button  
1 x Reset button  
1 x LAN activity LED  
1 x HDD activity LED  
1 x System status LED

## Rear I/O

2 x USB 3.2 Gen1  
1 x Mini-DP  
1 x RJ45  
1 x MLAN  
1 x ID button with LED

## Backplane I/O

Speed and bandwidth:  
PCIe Gen4 x4 or SATA 6Gb/s or SAS 12Gb/s

## TPM

1 x TPM header with SPI interface  
Optional TPM2.0 kit: [CTM010](#)

## Power Supply

1+1 800W (240V) 80 PLUS Platinum redundant power supplies

AC Input:  
- 100-240V~/ 10-4A, 50-60Hz

DC Input:  
- 240Vdc/ 4A

DC Output:  
- Max 800W  
+ 12V/ 66A  
+ 12Vsb/ 2.5A

**NOTE:** The default power supply is based on a basic system configuration. Please contact with technical representatives to determine the best power supply selection for your system configuration requirements and preferred efficiency.

## System Management

Aspeed® AST2600 management controller  
GIGABYTE Management Console (AMI MegaRAC SP-X) web interface

Dashboard  
HTML5 KVM  
Sensor Monitor (Voltage, RPM, Temperature, CPU Status ...etc.)  
Sensor Reading History Data  
FRU Information  
SEL Log in Linear Storage / Circular Storage Policy  
Hardware Inventory  
Fan Profile  
System Firewall  
Power Consumption  
Power Control  
Advanced power capping  
LDAP / AD / RADIUS Support  
Backup & Restore Configuration  
Remote BIOS/BMC/CPUD Update  
Event Log Filter  
User Management  
Media Redirection Settings  
PAM Order Settings  
SSL Settings  
SMTP Settings

## OS Compatibility

Please refer to OS compatibility table in support page

**Additional certifications:**  
[Windows Server 2022 \(x64\)](#)

## System Fans

4 x 40x40x56mm (29,700rpm)  
2 x 40x40x28mm (25,000rpm)

## Operating Properties

Operating temperature: 10°C to 35°C  
Operating humidity: 8%-80% (non-condensing)  
Non-operating temperature: -40°C to 60°C  
Non-operating humidity: 20%-95% (non-condensing)

## Packaging Dimensions

977 x 588 x 236 mm

## Packaging Content

1 x R163-S32  
1 x CPU heatsink  
1 x Mini-DP to D-Sub cable  
3 x Carrier clips  
1 x 2-Section Rail kit