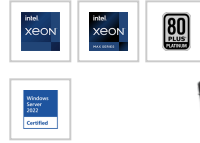


# R163-S32 (rev. AAC1) | (rev.AAB1) | (rev.AAC2)

Rack Server - 4th Gen Intel® Xeon® - 1U UP 12-Bay NVMe/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" Gen4 NVMe/SATA/SAS hot-swappable bays
- 1 x M.2 slot with PCIe Gen3 x4 interface
- 1 x FHHL PCIe Gen5 x16 slot
- 1 x OCP 3.0 Gen5 x16 slot
- 1+1 1300W (240V) 80 PLUS Platinum redundant power supplies



OVERVIEW **SPECIFICATIONS** SUPPORT RESOURCES BUY

R163-S32 (rev. AAC1)

## 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" Gen4 NVMe/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 CRS101P:

- 1 x PCIe x16 (Gen5 x16) FHHL slot

1 x OCP 3.0 slot with PCIe Gen5 x16 bandwidth  
Supports 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  
1 x OCP 3.0 slot

## 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 1300W (240V) 80 PLUS Platinum redundant power supplies

AC Input:  
- 100-240V~/ 12-7A, 50-60Hz  
- 200-240V~/ 8A, 50-60Hz

DC Input:  
- 240Vdc/ 6.5A

DC Output:  
- Max 1000W/ 100-240V~  
+ 12V/ 80.5A  
+ 12Vsb/ 3A  
- Max 1300W/ 200-240V~ or 240Vdc Input  
+ 12V/ 105.4A  
+ 12Vsb/ 3A

**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

## Part Numbers

- Barebone package: 6NR163S32DR000AAC1\*  
- Motherboard: 9MS33DC0UR-000  
- 2-Section Rail kit: 25HB2-3A0203-K0R  
- CPU heatsink: 25ST1-4Z3200-S7R  
- M.2 heatsink: 12SP2-11000E-00R  
- Front panel board - CFP1030: 9CFP1030NR-00  
- Backplane board - CBP10C0: 9CBP10C0NR-00  
- Fan module: 25ST2-405623-A0R/25ST2-442828-D0R  
- Riser card - CRS101P: 9CRS101PNR-00  
- Mini-DP to D-Sub cable: 25CRN-200801-K1R  
- Power supply: 25EP0-213006-F3S

## Optional parts:

- 3-Section Rail kit: 25HB2-A56120-K0R  
- Cable Management Arm: 25HBZ-R18100-K0R