

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

Rack Server - 4th/5th Gen Intel® Xeon® Scalable - 1U UP 12-Bay NVMe/SATA/SAS | Application: [Networking & Hybrid/Private Cloud Server](#)

- 5th Gen Intel® Xeon® Scalable Processors
- 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
- 8 x 2.5" SATA/SAS hot-swappable bays
- 4 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 Platinum redundant power supplies



Compare



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Dimensions (WxHxD, mm)

1U
438 x 43.5 x 710

Motherboard

MS33-DC0

CPU

5th Generation Intel® Xeon® Scalable Processors
4th Generation Intel® Xeon® Scalable Processors
Intel® Xeon® CPU Max Series
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

5th Gen Intel® Xeon®: Up to *5600MHz (1DPC), 4400MHz (2DPC)
4th Gen Intel® Xeon®: Up to 4800MHz (1DPC), 4400MHz (2DPC)
Intel® Xeon® Max Series: Up to 4800MHz (1DPC), 4400MHz (2DPC)

[*5600MHz support under 2DPC configuration requires verified memory and BIOS setup. Please refer to the QVL for more information.](#)

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:

4 x 2.5" Gen4 NVMe/SATA/SAS hot-swappable bays
8 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 TPM header
1 x VROC connector

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 Board

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 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)
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/CPLD 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