

# R163-S30 (rev. AAB1) | (rev.AAB2)

Rack Server - 4th/5th Gen Intel® Xeon® Scalable - 1U UP 4-Bay Gen4 NVMe/SATA/SAS | Application: [Network 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
- 4 x 3.5/2.5" 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 800W 80 PLUS Platinum redundant power supplies



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## R163-S30 (rev. AAB1)

### 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 3.5"/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 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

2 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 800W 80 PLUS Platinum redundant power supplies

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

DC Input:  
- 240Vdc/ 4.5A

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/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-S30  
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 (4th/5th Gen): 6NR163S30DR000ABB1\*
- Barebone package (4th Gen): 6NR163S30DR000AAB1\*
- Motherboard: 9MS33DC0UR-000
- 2-Section Rail kit (CMA not supported): 25HB2-3A0203-K0R
- CPU heatsink: 25ST1-4Z3200-S7R
- M.2 heatsink: 12SP2-11000E-00R
- Front panel board - CFP1010: 9CFP1010NR-00
- Backplane board - CBP1047: 9CBP1047NR-00
- Fan module: 25ST2-405623-A0R/25ST2-442828-D0R
- Riser card - CRS1010: 9CRS1010NR-00
- Riser card - CRS101P: 9CRS101PNR-00
- Mini-DP to D-Sub cable: 25CRN-200801-K1R
- Power supply: 25EP0-208004-L0S

## Optional parts:

- 3-Section Rail kit (Supports CMA): 25HB2-A56120-K0R
- Cable Management Arm: 25HBZ-R18100-K0R