

# R183-S94 (rev. AAC2) | (rev.AAC1)

Rack Server - 4th/5th Gen Intel® Xeon® Scalable - 1U DP 10-Bay SATA/SAS LITE | Application: [Networking & Hybrid/Private Cloud Server](#)

- 5th Gen Intel® Xeon® Scalable Processors
- 4th Gen Intel® Xeon® Scalable Processors
- Intel® Xeon® CPU Max Series
- Dual processor, LGA 4677
- 8-Channel RDIMM DDR5 per processor, 32 x DIMMs
- Dual ROM Architecture
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 10 x 2.5" SATA/SAS hot-swappable bays
- 2 x FHHL PCIe Gen5 x16 slots
- 2 x OCP 3.0 Gen5 x16 slots
- Dual 1300W 80 PLUS Platinum redundant power supply

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## Dimensions (WxHxD, mm)

1U  
438 x 43.5 x 815

## Motherboard

MS93-FS1

## CPU

5th Generation Intel® Xeon® Scalable Processors  
4th Generation Intel® Xeon® Scalable Processors  
Intel® Xeon® CPU Max Series  
Dual processor, CPU TDP up to 350W

[Note: If only 1 CPU is installed, some PCIe or memory functions might be unavailable](#)

## Socket

2 x LGA 4677  
Socket E

## Chipset

Intel® C741 Chipset

## Memory

32 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

2 x 1Gb/s LAN ports (1 x Intel® I350-AM2)  
Support 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:

10 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 CRS101J:

- 1 x PCIe x16 (Gen5 x16) FHHL slot, from CPU\_0

### Riser Card CRS101Q:

- 1 x PCIe x16 (Gen5 x16) FHHL slot, from CPU\_1

1 x OCP 3.0 slot with PCIe Gen5 x16 bandwidth, from CPU\_0  
Supports NCSI function

1 x OCP 3.0 slot with PCIe Gen5 x16 bandwidth, from CPU\_1  
Supports NCSI function

## 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 Reset button  
2 x LAN activity LEDs  
1 x HDD activity LED  
1 x System status LED

## Rear I/O

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

Dual 1300W 80 PLUS Platinum redundant power supply

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

## 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 \(x64\)](#)

## Weight

Net Weight: 22.94 kg  
Gross Weight: 24.81 kg

## System Fans

8 x 40x40x56mm (32,000rpm)

## 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

1045 x 595 x 249 mm

## Packaging Content

1 x R183-S94  
2 x CPU heatsinks  
1 x Mini-DP to D-Sub cable  
6 x Carrier clips  
1 x 2-Section Rail kit

## Part Numbers

- Barebone package (4th/5th Gen): 6NR183S94DR000ABC2\*  
- Barebone package (4th Gen): 6NR183S94DR000AAC2\*  
- Motherboard: 9AS93FS1UR-000  
- 2-Section Rail kit (CMA not supported): 25HB2-3A0206-K0R  
- CPU heatsink: 25ST1-4Z3200-S7R  
- Backplane board - CBP10A5: 9CBP10A5NR-00  
- Fan module: 25ST2-40562H-A0R  
- Riser card - CRS101J: 9CRS101JNR-00  
- Riser card - CRS101Q: 9CRS101QNR-00  
- G-SC Module - CDCR112: 9CDCR112NR-00  
- Mini-DP to D-Sub cable: 25CRN-200801-K1R  
- Power supply: 25EP0-213002-F3S

## Optional parts:

- 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R  
- Cable Management Arm: 25HB1-R18300-K0R  
- RMA packaging: 6NR183S94SR-RMA-A100