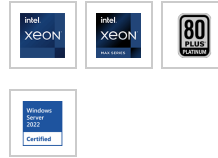


# R183-S90 (rev. AAD2) | (rev.AAD1) | (rev.AAV1) | (rev.AAV2)

4th Gen Intel® Xeon® Scalable Server System - 1U DP 4-Bay SATA/SAS | Application: [Networking](#)

- 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 supported
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 4 x 3.5"/2.5" SATA hot-swappable bays
- 2 x FHHL PCIe Gen5 x16 slots
- 2 x OCP 3.0 Gen5 x16 mezzanine slots
- Dual 1600W 80 PLUS Platinum redundant power supply



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R183-S90 (rev. AAD2)

## Dimensions (WxHxD, mm)

1U  
438 x 43.5 x 815

## Motherboard

MS93-F50

## CPU

4th Generation Intel® Xeon® Scalable Processors  
Intel® Xeon® CPU Max Series  
Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor, Intel® Xeon® silver Processor  
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 per processor architecture  
RDIMM modules up to 128GB supported  
3DS RDIMM modules up to 256GB supported  
Memory speed: Up to 4800 MHz (1DPC), 4400 MHz (2DPC)

## 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:**  
4 x 3.5"/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 CRS101K:

- 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  
2 x OCP 3.0 mezzanine slots

## 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  
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 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

Dual 1600W (240V) 80 PLUS Platinum redundant power supply

AC Input:  
- 100-120V~/ 12A, 50-60Hz  
- 200-240V~/ 10A, 50-60Hz

DC Input:  
- 240Vdc/ 10A

DC Output:  
- Max 1000W/ 100-120V~  
+ 12V/ 81.5A  
+ 12Vsb/ 2.5A  
- Max 1600W/ 200-240V~ or 240Vdc Input  
+ 12V/ 133A  
+ 12Vsb/ 2.5A

## 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  
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

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-S90  
2 x CPU heatsinks  
1 x Mini-DP to D-Sub cable  
6 x Carrier clips  
1 x Rail kit

## Part Numbers

- Barebone package: 6NR183S90DR000AAD2\*  
- Motherboard: 9AS93F50UR-000  
- Rail kit: 25HB2-3A0206-K0R  
- CPU heatsink: 25ST1-4Z3200-S7R  
- Front panel board: 9CFP1010NR-00  
- Backplane board: 9CBP1047NR-00  
- Fan module: 25ST2-40562H-A0R  
- Riser card - CRS101J: 9CRS101JNR-00  
- Riser card - CRS101K: 9CRS101KNR-00  
- G-SC Module: 9CDCR112NR-00  
- Mini-DP to D-Sub cable: 25CRN-200801-K1R  
- Power supply: 25EPO-216008-L0S