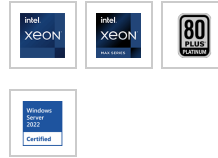


R183-S90 (rev. AAD1) | (rev.AAD2) | (rev.AAV1) | (rev.AAV2)

4th Gen Intel® Xeon® Scalable Server System - 1U DP 4-Bay NVMe/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" Gen4 NVMe/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



OVERVIEW SPECIFICATIONS SUPPORT RESOURCES BUY

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" Gen4 NVMe/SATA/SAS hot-swappable bays, from CPU_0

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: 6NR183S90DR000AAD1*
- 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