R183-S93 (rev. AAC2) | (rev.AAC1) | (rev.AAB1)

Rack Server - 4th/5th Gen Intel® Xeon® Scalable - 1U DP 4-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

4 x 3.5"/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

☐ Compare

OVERVIEW   SPECIFICATIONS   SUPPORT   RESOURCES   BUY

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:
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 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

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 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: 22.66 kg
Gross Weight: 24.66 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-S93
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): 6NR183S93DR000ABC2*
- Barebone package (4th Gen): 6NR183S93DR000AAC2*
- Motherboard: 9AS93FS1UR-000
- 2-Section Rail kit (CMA not supported): 25HB2-3A0206-K0R
- CPU heatsink: 25ST1-4Z3200-S7R
- Front panel board - CFP1010: 9CFP1010NR-00
- Backplane board - CBP1047: 9CBP1047NR-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: 6NR183S93SR-RMA-A100