E283-S90 (rev. AAD1) | (rev.AAV1)

Edge Server - 4th/5th Gen Intel® Xeon® Scalable - 2U UP 4-Bay Gen4 NVMe/SATA/SAS | Application: Networking , Edge &

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 2.5" Gen4 NVMe/SATA/SAS hot-swappable bays on rear side

6 x FHHL PCIe Gen5 x16 slots

2 x OCP 3.0 Gen5 x16 slots

Dual 1600W 80 PLUS Platinum redundant power supply

Compare

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Dimensions (WxHxD, mm)

2U
438 x 87.5 x 625

Motherboard

MS93-FS0

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 Mbps Management LAN

Video

Integrated in Aspeed® AST2600
2D Video Graphic Adapter with PCIe bus interface
1920x1200@60Hz 32bpp

Storage

Rear side:
4 x 2.5" Gen4 NVMe/SATA/SAS hot-swappable bays
- (2 x NVMe from CPU_0, 2 x NVMe from CPU_1)

SAS card is required for SAS devices support

SAS

Depends on SAS add-in 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

Riser Card CRS202G:
- 2 x PCIe x16 (Gen5 x16) FHHL slots, from CPU_0*

*Slot_10 would be downgraded to Gen4 if using XCC CPU with 4 x UPI

Riser Card CRS202H:
- 2 x PCIe x16 (Gen5 x16) FHHL slots, 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 Storage 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 1600W 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
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

Weight

Net Weight: 21.96 kg
Gross Weight: 24.02 kg

System Fans

4 x 80x80x38mm (18,300rpm)

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

982 x 588 x 268 mm

Packaging Content

1 x E283-S90
2 x CPU heatsinks
1 x Mini-DP to D-Sub cable
6 x Carrier clips

*Rail kit not included. Please refer to optional parts for compatible rail kit.