

R183-Z92 (rev. AAD2) | (rev.AAD1) | (rev.AAD3) | (rev.AAV1)

AMD EPYC™ 9004 Server System - 1U DP 12-Bay NVMe/SATA/SAS | Application: **Networking**

- AMD EPYC™ 9004 series processor family
- Dual processor, 5nm technology
- 12-Channel RDIMM DDR5, 24 x DIMMs
- Dual ROM Architecture supported
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x dedicated management port
- 4 x 2.5" Gen4 NVMe/SATA hot-swappable bays
- 8 x 2.5" SATA hot-swappable bays
- 3 x M.2 slots with PCIe Gen3 interface
- 2 x FHHL PCIe Gen5 x16 slots
- 2 x OCP 3.0 Gen5 x16 mezzanine slots
- Dual 1600W (240V) 80 PLUS Platinum redundant power supply



[Request a Quote](#)

Compare



OVERVIEW **SPECIFICATIONS** SUPPORT RESOURCES BUY

Dimensions (WxHxD, mm)

1U
438 x 43.5 x 815

Motherboard

MZ93-F50

CPU

AMD EPYC™ 9004 series processor family
Dual processor, 5nm technology
Up to 96-core, 192 threads per processor
cTDP up to 300W

Supports CPU 400W, OCP 3.0 ≤21W at ambient 30°C

Socket

2 x LGA 6096
Socket SP5

Chipset

System on Chip

Memory

24 x DIMM slots
DDR5 memory supported only
12-Channel memory architecture per processor
RDIMM modules up to 128GB supported
3DS RDIMM modules up to 256GB supported
Memory speed: Up to 4800 MHz

LAN

2 x 1GbE 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 2.5" Gen4 NVMe/SATA/SAS hot-swappable bays
8 x 2.5" SATA/SAS hot-swappable bays

SAS card is required for SAS devices support

SAS

Depends on SAS Add-on card

RAID

N/A

Expansion Slots

Riser Card CRS101T:
- 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

1 x M.2 slot:
- M-key
- PCIe Gen3 x4, from CPU_0
- Supports 2280/22110 cards

1 x M.2 slot:
- M-key
- PCIe Gen3 x4, from CPU_1
- Supports 2280/22110 cards

1 x M.2 slot:
- M-key
- PCIe Gen3 x2, from CPU_1
- Supports 2280/22110 cards

Internal I/O

3 x M.2 slots
1 x TPM header
2 x OCP 3.0 mezzanine slots

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 button with LED

Backplane I/O

Backplane P/N: 9CBP10C0NR-00
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

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-Z92
1 x CPU heatsink
1 x Rail kit

Part Numbers

- Barebone package: 6NR183Z92DR000AAD2*
- Motherboard: 9MZ93F50UR-000
- Rail kit: 25HB2-3A0206-K0R
- CPU heatsink: 25ST1-553202-A0R
- M.2 heatsink: 12SP2-11000E-00R
- Front panel board: CFP1013: 9CFP1030NR-00
- Backplane board: 9CBP10C0NR-00
- Fan module: 25ST2-40562H-A0R
- Riser card - CRS101T: 9CRS101TNR-00
- Riser card - CRS101Q: 9CRS101QNR-00
- G-SC Module: 9CDCR114NR-00
- Mini-DP to D-Sub cable: 25CRN-200801-K1R
- Power supply: 25EP0-216008-L0S

* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice.

* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.

* All trademarks and logos are the properties of their respective holders.

* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

DISCOVER	COMPANY	CONSUMER	ENTERPRISE	SOLUTION	SERVICE / SUPPORT
Join Us	About Us	Motherboard	Server Motherboard	Application Solutions	Product Support
Customer Care	CSR	Graphics Card	Rack Server	Industry Solutions	Online Support
GIGABYTE Stable Models (GSM)	News	Laptop	GPU Server		FAQ
Business Center	Career	Monitor	High Density Server	RESOURCE	Warranty
	Investor	Desktop PC	Advanced Cooling	Insight	
	Contact Us	PC Peripherals	ARM Server	Success Case	
		PC Components	Storage Server	Awards	
			Edge Server	News	
			Tower Server / Workstation	Events	
			Embedded Computing		

FOLLOW US

