R163-Z30 (rev. AAB2) | (rev.AAB1) | (rev.AAG1) | (rev.AAG2)

Rack Server - AMD EPYC™ 9004 - 1U UP 4-Bay SATA/SAS | Application: Networking & Hybrid/Private Cloud Se

AMD EPYC™ 9004 Series processors

AMD EPYC™ 9004 Series processors with AMD 3D V-Cache™ Technology

Single processor, 5nm technology

12-Channel RDIMM DDR5, 12 x DIMMs

Dual ROM Architecture

1 x 1Gb/s LAN port (Intel® I210-AT)

1 x Dedicated management port

4 x 3.5"/2.5" SATA/SAS hot-swappable bays

1 x M.2 slot with PCIe Gen3 x4 interface

2 x FHHL PCIe Gen5 x16 slots

2 x OCP 3.0 Gen5 x16 slots

1+1 800W 80 PLUS Platinum redundant power supplies

☐ Compare

OVERVIEW   SPECIFICATIONS   SUPPORT   RESOURCES   BUY

Dimensions (WxHxD, mm)

1U
438 x 43.5 x 710

Motherboard

MZ33-DC0

CPU

AMD EPYC™ 9004 Series processors
AMD EPYC™ 9004 Series processors with AMD 3D V-Cache™ Technology
Single processor, 5nm technology
*Up to 128-core, 256 threads per processor
cTDP up to 300W at ambient 35°C

*cTDP supported up to 400W under limited thermal conditions.
Please contact technical support for more details.

Socket

1 x LGA 6096
Socket SP5

Chipset

System on Chip

Memory

12 x DIMM slots
DDR5 memory supported only
12-Channel memory architecture
RDIMM modules up to 96GB supported
3DS RDIMM modules up to 256GB supported
Memory speed: Up to 4800 MHz

LAN

Rear side:
1 x 1Gb/s LAN port (1 x Intel® I210-AT)
Supports 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

Depend   AS add-in card

RAID

N/A

Expansion Slots

Riser Card CRS101V:
- 1 x PCIe x16 (Gen5 x16) FHHL slot

Riser Card CRS101W:
- 1 x PCIe x16 (Gen5 x16) FHHL slot

2 x OCP 3.0 slots with PCIe Gen5 x16 bandwidth
Support NCSI function

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

Internal I/O

1 x TPM header

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 LED disabled)
1 x Storage activity LED
1 x System status LED

Rear I/O

2 x USB 3.2 Gen1
1 x Mini-DP
1 x RJ45
1 x MLAN
1 x ID button with LED

Backplane Board

Speed and bandwidth:
SATA 6Gb/s or SAS 12Gb/s

TPM

1 x TPM header with SPI interface
Optional TPM2.0 kit: CTM010

Power Supply

1+1 800W 80 PLUS Platinum redundant power supplies

AC Input:
- 100-240V~/ 10-4A, 50-60Hz

DC Input:
- 240Vdc/ 4.5A

DC Output:
- Max 800W
+ 12V/ 66A
+ 12Vsb/ 2.5A

Note: The default power supply is based on a basic system configuration. Please contact with technical representatives to determine the best power supply selection for your system configuration requirements and preferred efficiency.

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)

System Fans

4 x 40x40x56mm (29,700rpm)
2 x 40x40x28mm (25,000rpm)

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

977 x 588 x 236 mm

Packaging Content

1 x R163-Z30
1 x CPU heatsink
1 x Mini-DP to D-Sub cable
1 x 2-Section Rail kit

Part Numbers

- Barebone package: 6NR163Z30DR000AAB2*
- Motherboard: 9MZ33DC0UR-000
- 2-Section Rail kit (CMA not supported): 25HB2-3A0203-K0R
- CPU heatsink: 25ST1-553201-M1R
- M.2 heatsink: 12SP2-11000E-00R
- Backplane board - CBP1047: 9CBP1047NR-00
- Fan module: 25ST2-405623-A0R
- Fan module: 25ST2-442828-D0R
- Riser card - CRS101V: 9CRS101VNR-00
- Riser card - CRS101W: 9CRS101WNR-00
- Mini-DP to D-Sub cable: 25CRN-200801-K1R
- Power supply: 25EP0-208004-L0S

Optional parts:

- 3-Section Rail kit (Supports CMA): 25HB2-A56120-K0R
- Cable Management Arm: 25HBZ-R18100-K0R