

# R272-Z34 (rev. 100) | (rev.A00)

## AMD EPYC™ 7002 UP Server System - 2U 24-Bay Gen4 NVMe | Application: Networking

- Hardware-level root of trust support
- Supports GRAID SupremeRAID NVMe/NVMe-oF RAID Card
- Single AMD EPYC™ 7002 series processor family
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 24 x 2.5" Gen4 U.2 hot-swappable SSD bays on front side
- 2 x 2.5" SATA/SAS hot-swappable HDD/SSD bays on rear side
- Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 1 x PCIe Gen4 x8 expansion slot
- 1200W 80 PLUS Platinum redundant power supply



OVERVIEW SPECIFICATIONS SUPPORT RESOURCES BUY

### Dimensions (WxHxD, mm)

2U  
438 x 87.5 x 660 mm

### Motherboard

M232-AR1

### CPU

AMD EPYC™ 7002 series processor family  
Single processor, 7nm technology  
Up to 64-core, 128 threads per processor  
TDP up to 225W, cTDP up to 240W

Conditional support 280W

Compatible with AMD EPYC™ 7001 series processor family

### Chipset

System on Chip

### Memory

16 x DIMM slots  
DDR4 memory supported only  
8-Channel memory architecture  
RDIMM modules up to 128GB supported  
LRDIMM modules up to 128GB supported  
Memory speed: Up to 3200\*/2933 MHz

### - Note:

Follow BIOS setting and memory QVL list if running 3200 Mhz with 2DPC

### LAN

2 x 1GbE LAN ports (1 x Intel® I350-AM2)  
1 x 10/100/1000 management LAN

### Video

Integrated in Aspeed® AST2500  
2D Video Graphic Adapter with PCIe bus interface  
1920x1200@60Hz 32bpp

### Audio

N/A

### Storage

Total 26 x 2.5" hot-swappable HDD/SSD bays

- Front side: 24 x 2.5" Gen4 U.2 hot-swappable SSD bays  
- Rear side: 2 x 2.5" SATA/SAS hot-swappable HDD/SSD bays

2 x M.2 slots:

- M-key
- PCIe Gen4 x4
- Supports NGFF-2242/2260/2280 cards

### RAID

N/A

### Peripheral Drives

N/A

### Expansion Slots

Total 6 x low profile PCIe Gen4/Gen3 expansion slots  
Slot\_6: 1 x PCIe x16 (Gen4 x16 bus) slot; Occupied by CNV3134, 4 x NVMe HBA  
Slot\_5: 1 x PCIe x16 (Gen4 x8 bus) slot  
Slot\_4: 1 x PCIe x16 (Gen4 x16 bus) slot; Occupied by CNV3134, 4 x NVMe HBA  
Slot\_3: 1 x PCIe x16 (Gen4 x16 bus) slot; Occupied by CNV3134, 4 x NVMe HBA  
Slot\_2: 1 x PCIe x8 (Gen3 x0 or x8 bus) slot; no function  
Slot\_1: 1 x PCIe x16 (Gen3 x16 or x8 bus) slot; Occupied by CNV3134, 4 x NVMe HBA

1 x OCP 2.0 mezzanine slot with PCIe Gen3 x16; Occupied by CNVP143, 4 x NVMe HBA

### Internal I/O

2 x M.2 slots  
1 x USB 3.0 header  
1 x USB 2.0 header  
1 x COM\_2 header  
1 x TPM header  
1 x Front panel header  
1 x HDD back plane board header  
1 x PMBus connector  
1 x IPMB connector  
1 x Clear CMOS jumper  
1 x BIOS recovery jumper  
1 x Buzzer

### Front I/O

2 x USB 3.0  
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

3 x USB 3.0  
1 x VGA  
1 x COM  
2 x RJ45  
1 x MLAN  
1 x ID button with LED

### Backplane I/O

Front side\_CBP200B: 24 x Gen4 U.2 ports  
Rear side\_CBP2023: 2 x SATA/SAS ports  
Speed and bandwidth: SATA/SAS/PCIe Gen4 x4 per port

### TPM

1 x TPM header with SPI interface  
Optional TPM2.0 kit: [CTM010](#)

### Power Supply

2 x 1200W redundant PSUs  
80 PLUS Platinum

AC Input:  
- 100-127V~/12.47A, 47-63Hz  
- 200-240V~/7.08A, 47-63Hz

DC Output:  
- Max 1000W/ 100-127V~  
+ 12V/ 82A  
+ 12Vsb/ 2A  
- Max 1200W/ 200-240V~  
+ 12V/ 98A  
+ 12Vsb/ 2A

### System Management

Aspeed® AST2500 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/CPUD Update  
Event Log Filter  
User Management  
Media Redirection Settings  
PAM Order Settings  
SSL Settings  
SMTP Settings

### OS Compatibility

Windows Server 2016 (X2APIC/256T not supported)  
Windows Server 2019

Red Hat Enterprise Linux 7.6 (x64) or later  
Red Hat Enterprise Linux 8.0 (x64) or later  
Red Hat Enterprise Linux 9.0 (x64) or later

SUSE Linux Enterprise Server 12 SP4 (x64) or later  
SUSE Linux Enterprise Server 15 SP1 (x64) or later

Ubuntu 16.04.6 LTS (x64) or later  
Ubuntu 18.04.3 LTS (x64) or later  
Ubuntu 20.04 LTS (x64) or later

VMware ESXi 6.5 EP15 or later  
VMware ESXi 6.7 Update3 or later  
VMware ESXi 7.0 or later  
VMware ESXi 8.0 or later

Citrix Hypervisor 8.1.0 or later

### Weight

Net Weight: 17.78 kg  
Gross Weight: 24.76 kg

### System Fans

4 x 80x80x38mm (16,300rpm)