R282-Z96
Rack Server - 2U DP 12-Bay GPU & NVMe sku

Specification

- **Dimensions**: 2U (W438 x H87 x D730 mm)
- **Motherboard**: MZ92-F50 Rev. 3.0
- **CPU**: AMD EPYC™ 7003 Series processors
  - Dual processors, 7nm, Socket SP3
  - Up to 64-core, 128 threads per processor
  - TDP up to 225W, cTDP up to 280W. Fully support 280W
  - Compatible with AMD EPYC™ 7002 Series processors
- **Chipset**: System on Chip
- **Memory**: 8-Channel DDR4, 32 x DIMM slots
  - RDIMM/LRDIMM modules up to 128GB supported
  - 3DS RDIMM/LRDIMM modules up to 256GB supported
  - Memory speed: Up to 3200 / 2933 MHz
- **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
- **Storage**: 8 x 3.5”/2.5” SATA/SAS hot-swap HDD/SSD bays
  - 4 x 3.5”/2.5” SATA/Gen4 NVMe hot-swap HDD/SSD bays
  - SAS card is required for SAS devices support
- **Expansion Slots**: 4 x PCIe x16 slots (Gen4 x16), HHL
  - 1 x OCP 3.0 mezzanine slot (Gen4 x16)
  - 1 x OCP 2.0 mezzanine slot (Gen3 x8)
  - 1 x M.2 slot (Gen4 x4)
- **Front I/O**: 2 x USB 3.0
- **Rear I/O**: 2 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN

Backplane I/O

- 9CBP20C5NR-00: 8 x SATA/SAS and 4 x SATA/NVMe ports
- 1 x TPM header with SPI interface
- Optional TPM2.0 kit: CTM010

Power Supply

- Dual 2000W 80 PLUS Platinum redundant power supply
- AC Input: 100-240V

System Management

- Aspeed® AST2500 management controller
- GIGABYTE Management Console (AMI MegaRAC SP-X)

OS Compatibility

- Windows Server 2016 / 2019 / 2022
- RHEL 8.3 (x64) or later
- SLES 12 SP5 (x64) / 15 SP2 (x64) or later
- Ubuntu 18.04.5 LTS (x64) / 20.04 LTS (x64) or later
- VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later
- Citrix Hypervisor 8.2.0 or later

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)
- Ambient temperature limited to 30°C if using 280W CPU

Packaging Content

- 1 x R282-Z96 system
- 2 x CPU heatsinks
- 1 x Rail kit

Reference Numbers

- Barebone package: 6NR282Z96MR-00 Rev. A00
  - Motherboard: 9M290F50NR-00 Rev. 3.0
  - Rail kit: 25HB2-3A0202-K0R
  - CPU heatsink: 25ST1-44320G-A0R
  - Power supply: 25EP0-22000A-L0S
- GRAID SupremeRAID Core Software Module License (optional):
  - 25FC1-SRBUN1-AFS (4-native NVMe RAID)

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