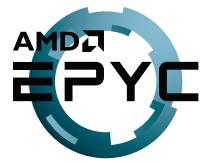


# R283-Z91-AAV1

## 2U DP 12+2-Bay NVMe/SATA/SAS Rack Server



### Features

- AMD EPYC™ 9004 series processor family
- Dual processors, 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 3.5/2.5" Gen4 NVMe/SATA/SAS hot-swappable bays
- 8 x 3.5/2.5" SATA/SAS hot-swappable bays
- 2 x 2.5" SATA/SAS hot-swappable bays on rear side
- Onboard 12Gb/s SAS expander
- 3 x Ultra-Fast M.2 with PCIe Gen3 interface
- 6 x FHHL PCIe Gen5 x16 and x8 expansion slots
- 2 x OCP 3.0 Gen5 x16 mezzanine slots
- Dual 1600W (240V) 80 PLUS Titanium redundant power supply

### Specification

|                        |   |                             |   |
|------------------------|---|-----------------------------|---|
| <b>Dimensions</b>      | 2U (W438 x H87 x D815 mm)   | <b>Backplane I/O</b>        | SATA 6Gb/s or SAS 12Gb/s on front side<br>SATA 6Gb/s or SAS 12Gb/s on rear side   |
| <b>Motherboard</b>     | MZ93-FS0  | <b>TPM</b>                  | 1 x TPM header with SPI interface<br>Optional TPM2.0 kit: CTM010  |
| <b>CPU</b>             | AMD EPYC™ 9004 series processor<br>Dual processors, 5nm technology, cTDP up to 350W<br>Up to 96-core, 192 threads per processor<br>2 x LGA 6096 Socket SP5  | <b>Power Supply</b>         | Dual 1600W 80 PLUS Titanium redundant power supply<br>AC Input: 100-240V  |
| <b>Chipset</b>         | System on Chip  | <b>System Management</b>    | Aspeed® AST2600 management controller<br>GIGABYTE Management Console (AMI MegaRAC SP-X)   |
| <b>Memory</b>          | 24 x DIMM slots<br>12-Channel DDR5 memory, up to 4800 MHz<br>RDIMM modules up to 128GB supported<br>3DS RDIMM modules up to 256GB supported   | <b>OS Compatibility</b>     | Windows Server 2019 / 2022<br>RHEL 8.6 / 8.7 / 9 / 9.1 (x64)<br>SLES 15 SP4 (x64)<br>Ubuntu 20.04.5 LTS / 22.04 LTS / 22.04.1 LTS (x64)<br>VMware ESXi 7.0 Update 3i / 8.0<br>Citrix Hypervisor 8.2.1   |
| <b>LAN</b>             | 2 x 1GbE LAN ports (ntel I350-AM2) - Supported NCSI function<br>1 x 10/100/1000 management LAN  | <b>System Fans</b>          | 4 x 80x80x38mm (18,300rpm)  |
| <b>Video</b>           | Integrated in Aspeed AST2600<br>2D Video Graphic Adapter with PCIe bus interface<br>1920x1200@60Hz 32bpp, DDR4 SDRAM  | <b>Operating Properties</b> | Operating temperature: 10°C to 35°C<br>Operating humidity: 8-80% (non-condensing)<br>Non-operating temperature: -40°C to 60°C<br>Non-operating humidity: 20%-95% (non-condensing)   |
| <b>Storage</b>         | 4 x 3.5/2.5" Gen4 NVMe/SATA/SAS hot-swappable bays<br>8 x 3.5/2.5" SATA/SAS hot-swappable bays<br>2 x 2.5" SATA/SAS hot-swappable bays on rear side<br>All SATA/SAS devices are connected to SAS35x24R expander<br>SAS card is required to enable SATA/SAS drives | <b>Packaging Content</b>    | 1 x R283-Z91<br>2 x CPU heatsinks<br>1 x Rail kit   |
| <b>Expansion Slots</b> | 4 x PCIe Gen5 x16 FHHL slots<br>2 x PCIe Gen5 x8 FHHL slots<br>2 x PCIe Gen5 x16 OCP 3.0 slots - Supporte NCSI function<br>2 x M.2 slots (M-key, PCIe Gen3 x4, NGFF-2280/22110)<br>1 x M.2 slot (M-key, PCIe Gen3 x2, NGFF-2280/22110)                            | <b>Reference Numbers</b>    | Barebone package: 6NR283Z91DR000AAV2*<br>- Motherboard: 9MZ93FS0UR-000<br>- Rail kit: 25HB2-3A0206-K0R<br>- CPU heatsink: 25ST1-15320G-A0R<br>- Back plane board_12-port_3.5": 9CBP21C1NR-00<br>- Back plane board_2-port_2.5": 9CBP2022NR-00<br>- Mini-DP to D-Sub cable: 25CRN-200801-K1R<br>- Power supply: 25EP0-21600I-G1S |
| <b>Front I/O</b>       | 2 x USB 3.2 Gen1  |                             |   |
| <b>Rear I/O</b>        | 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN   |                             |   |



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