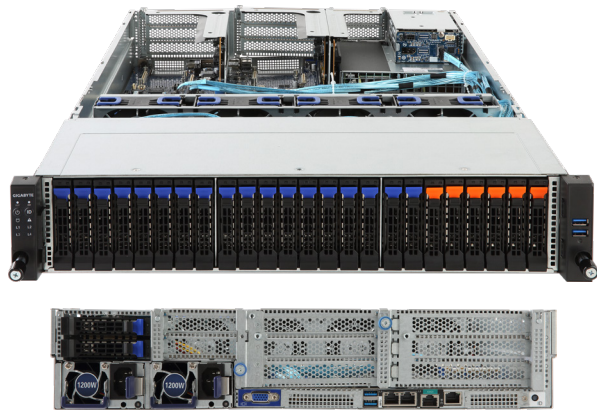


## R281-Z91

Rack Server - 2U DP 26-Bay



### Features

- Dual AMD EPYC™ 7002 and 7001 series processor family
- 8-Channel RDIMM/LRDIMM DDR4 per processor, 32 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 6 x 2.5" U.2, 20 x 2.5" SATA/SAS hot-swap HDD/SSD bays
- Ultra-Fast M.2 with PCIe Gen3 x4 interface
- 7 x PCIe Gen3 expansion slots
- Aspeed® AST2500 remote management controller
- 1200W 80 PLUS Platinum redundant PSU

### Specification

<b>Dimensions</b>	2U (W438 x H87 x D710 mm)	<b>Backplane I/O</b>	Front side_CBP2005: 18 x SATA/SAS and 6 x NVMe ports Rear side_CBP2020: 2 x SATA/SAS ports (connected to SAS expander) Front side_CEP2600: 18 x SATA/SAS expander
<b>Motherboard</b>	MZ91-FS1	<b>TPM</b>	1 x TPM header with LPC interface Optional TPM2.0 kit: CTM000
<b>CPU</b>	AMD EPYC™ 7002 series processor family Dual processors, 7nm, Socket SP3 TDP up to 225W, cTDP up to 240W, Fully support 280W Compatible with AMD EPYC™ 7001 series processor family	<b>Power Supply</b>	Dual 1200W 80 PLUS Platinum redundant power supply
<b>Chipset</b>	System on Chip	<b>System Management</b>	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
<b>Memory</b>	8-Channel DDR4 memory, 32 x DIMM slots RDIMM/LRDIMM modules up to 128GB supported Memory speed: Up to 3200 / 2933 MHz	<b>OS Compatibility</b>	Windows Server 2016 / 2019 RHEL 7.6 (x64) / 8.0 (x64) or later SLES 12 SP4 ( x64) / 15 SP1 ( x64) or later Ubuntu 16.04.6 LTS (x64) / 18.04.3 LTS (x64) / 20.04 LTS (x64) VMware ESXi 6.5 EP15 / 6.7 Update3 / 7.0 or later Citrix Hypervisor 8.1.0
<b>LAN</b>	2 x 1GbE LAN ports (1 x Intel® I350-AM2) 1 x 10/100/1000 management LAN	<b>Weight</b>	22 kg
<b>Video</b>	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp	<b>System Fans</b>	4 x 80x80x38mm (16'300rpm)
<b>Storage</b>	Front side: 6 x U.2, 18 x SATA/SAS 2.5" hot-swap HDD/SSD bays Rear side: 2 x SATA/SAS 2.5" hot-swap HDD/SSD bays LSI SAS35x36 expander Default configuration supports: 6 x U.2, 0 x SAS/SATA drives 1 x M.2 slot: M-key, PCIe Gen3 x4 - Supports NGFF-2242/2260/2280 cards	<b>Operating Properties</b>	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)
<b>Expansion Slots</b>	2 x PCIe x16 slot (Gen3 x16 or x8), FHHL 2 x PCIe x8 slots (Gen3 x0 or x8), FHHL 1 x PCIe x8 slots (Gen3 x8),FHHL 1 x PCIe x16 slot (Gen3 x16 or x8), LPHL 1 x PCIe x8 slots (Gen3 x0 or x8), LPHL 2 x OCP 2.0 mezzanine slots (Gen3 x16)	<b>Packaging Content</b>	1 x R281-Z91 2 x CPU heatsinks 1 x Rail kit
<b>Internal I/O</b>	6 x SlimSAS connectors, 1 x M.2 slot, 2 x CPU fan headers, 1 x USB 3.0 header, 1 x TPM header, 7 x PCIe expansion slots, 2 x OCP mezzanine slots, 2 x Power supply connectors, 1 x Front panel header, 1 x Back plane board header, 1 x IPMB connector, 1 x Clear CMOS jumper, 1 x BIOS recovery jumper	<b>Reference Numbers</b>	Barebone package: 6NR281Z91MR-00-A* - Motherboard: 9MZ91FS0NR-00-2* - Rail kit: 25HB2-3A0202-K0R - CPU heatsink: 25ST1-15320E-J1R - Back plane board_24-port: 9CBP2005NR-00 - Back plane board_2-port: 9CBP2020NR-00 - Back plane board_U.2 type: 9CEP2600NR-00 - Front panel board: 9CFP2001NR-00 - Power supply: 25EP0-212007-F3S - RJ45 type COM cable: 25CR0-200400-Y4R (in option) - Riser card - CRS2133: 9CRS2133NR-00 - Riser card - CRS2134: 9CRS2134NR-00 - Riser card - CRS2124: 9CRS2124NR-00
<b>Front I/O</b>	2 x USB 3.0		
<b>Rear I/O</b>	2 x USB 3.0, 1 x VGA, 1 x COM (RJ45 type), 2 x RJ45, 1 x MLAN		

\* All specifications are subject to change without notice. Please visit our website for the latest information.

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