GIGABYTE™

W291-Z00

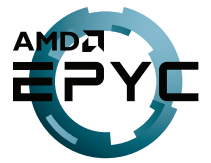## AMD EPYC™ UP Tower System

Features

- High performance tower workstation / e-business server
- Supports up to 4 x double slot GPU cards
- Single AMD EPYC™ 7002 and 7001 Series processors
- 8-Channel RDIMM/LRDIMM DDR4, 8 x DIMMs
- 2 x 1Gb/s LAN ports
- 1 x dedicated management port
- 4 x 3.5" or 2.5" SATAIII hot-swappable HDD/SSD bays
- Ultra-Fast M.2 with PCIe Gen3 x4 interface
- Up to 5 x PCIe Gen3 expansion slots
- Aspeed® AST2500 remote management controller
- 1+1 1600W 80 PLUS Platinum redundant power supply

Specification

Dimensions	Pedestal (W200 x H450.2 x D642.2 mm)		**Backplane I/O**	4 x 3.5" or 2.5" SATA/SAS ports
Motherboard	MZ01-CE1		**TPM**	1 x TPM header with LPC interface Optional TPM2.0 kit: CTM000
CPU	AMD EPYC™ 7002 Series processors Single processor, 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™ 7001 Series processors		**Power Supply**	2 x 1600W 80 PLUS Platinum power supply AC Input: 100-240V
			System Management	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Chipset	System on Chip		**OS Compatibility**	Windows Server 2016 / 2019 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
Memory	8-Channel DDR4 memory, 8 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 1Gb/s LAN ports (Intel® I210-AT) 1 x 10/100/1000 management LAN		**System Fans**	3 x 120x120x38mm (8,500 rpm) 1 x 92x92x25mm (Attached in HDD cage)
Video	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp		**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)
Storage	4 x 3.5" / 2.5" SATAIII hot-swappable HDD/SSD bays SAS card is required for SAS devices support			
Peripheral Drives	1 x 5.25" space reserved for ODD device		**Packaging Content**	1 x W291-Z00 1 x Heatsink 1 x Quick Installation guid

RAID	Depends on SAS Add-on card		**Reference Numbers**	Barebone package: 6NW291Z00MR-00 Rev. B00
				- Motherboard: 9MZ01CE1NR-00-2*
				- I/O shield: 12AIO-MZ01C1-00R
				- Power supply: 25EP0-216007-L0S
				- CPU Fan-sink: 12SF2-01A067-00R
				- Railkit for W291-Z00 (as an option, (A)+(B)+(C))
				  (A) 25HB5-W29101-I0R (Ear left side), Q'ty: 1
				  (B) 25HB5-W29100-I0R (Ear right side), Q'ty: 1
				  (C) 25HB2-3A6104-I0R (Rail kit), Q'ty: 1

Expansion Slots	4 x PCIe x16 slots (Gen3 x16) 1 x PCIe x8 slot (Gen3 x8) 1 x M.2 slot (Gen3 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			

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