W291-Z00 (rev. A00) rev. 100

AMD EPYC™ DP Tower System

Dimensions (WxHxD, mm)	Pedestal 200 x 450.2 x 642.2 mm
Motherboard	MZ01-CE1
CPU	AMD EPYC™ 7002 series processor family Single processor, 7nm, Socket SP3 Up to 64-core, 128 threads per processor TDP up to 200W Compatible with AMD EPYC™ 7001 series processor family
Socket	Socket SP3
Chipset	System on Chip
Memory	8 x DIMM slots DDR4 memory supported only 8-Channel memory architecture RDIMM modules up to 64GB 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
LAN	2 x 1Gb/s LAN ports (Intel® I210-AT) 1 x 10/100/1000 management LAN
Video	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp
Audio	-
Storage	4 x 3.5" / 2.5" SATAIII hot-swappable HDD/SSD bays SAS card is required for SAS devices support
RAID	Depends on SAS Add-on card
Peripheral Drives	1 x 5.25" space reserved for ODD device
Expansion Slots	Slot_7 (PCIe_7): 1 x PCIe x16 (Gen3 x16 bus) Slot_5 (PCIe_5): 1 x PCIe x16 (Gen3 x16 bus) Slot_4 (PCIe_4): 1 x PCIe x8 (Gen3 x8 bus) Slot_3 (PCIe_3): 1 x PCIe x16 (Gen3 x16 bus)

	Slot_1 (PCIe_1): 1 x PCIe x16 (Gen3 x16 bus) 1 x M.2 slot: - M-key - PCIe Gen3 x4 - Supports NGFF-2242/2260/2280/22110 cards
Internal I/O	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 4 x SlimSAS connectors 1 x M.2 slot 1 x CPU fan headers 6 x System fan headers 1 x USB 3.0 header 2 x COM headers 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
Front I/O	2 x USB 3.0 1 x Power button with LED 1 x ID button with LED 1 x Reset button 1 x NMI button 1 x System status LED 2 x LAN activity LEDs Hard drive cage: 1 x HDD power on LED 1 x HDD activity LED 1 x HDD key lock
Rear I/O	2 x USB 3.0 1 x VGA 2 x RJ45 1 x MLAN 1 x ID switch with LED 1 x Power switch with LED
TPM	1 x TPM header with LPC interface Optional TPM2.0 kit: CTM000
Power Supply	2 x 1600W redundant PSUs 80 PLUS Platinum AC Input: - 100-127V~/ 12A, 47-63Hz - 200-240V~/ 9.48A, 47-63Hz DC Output: - Max 1000W/ 100-127V +12V/ 82A +12Vsb/ 2.1A - Max 1600W/ 200-240V +12V/ 132A +12Vsb/ 2.1A

System Management	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X) web interface Dashboard JAVA Based Serial Over LAN 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/CPLD Update Event Log Filter User Management Media Redirection Settings PAM Order Settings SSL Settings SMTP Settings
OS Compatibility	**For AMD EPYC™ 7002 series processor family** 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 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 VMware ESXi 6.5 EP15 or later VMware ESXi 6.7 Update3 or later **For AMD EPYC™ 7001 series processor family** Windows Server 2012 R2 with Update Windows Server 2016 Red Hat Enterprise Linux 7.4 (x64) or later Red Hat Enterprise Linux 8.0 (x64) or later SUSE Linux Enterprise Server 11.4 (x64) or later SUSE Linux Enterprise Server 12.3 (x64) or later SUSE Linux Enterprise Server 15 (x64) or later Ubuntu 16.04 LTS (x64) or later Ubuntu 18.04 LTS (x64) or later VMware ESXi 6.5 Update1 or later VMware ESXi 6.7 or later Citrix Xenserver 7.1.0 CU2 or later

	Citrix Xenserver 7.4.0 or later Citrix Hypervisor 8.0.0
Weight	Net Weight: 19.5 kg Gross Weight: 23 kg
System Fans	3 x 120x120x38mm (8,500 rpm) 1 x 92x92x25mm (Attached in HDD cage)
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)
Packaging Dimensions	348 x 691 x 791 mm
Packaging Content	1 x W291-Z00 1 x Heatsink 1 x Quick Installation guide
Part Numbers	Barebone package: 6NW291Z00MR-00-A* **Part Numbers:** - Motherboard: 9MZ01CE1NR-00-2* - I/O shield: 12AIO-MZ01C1-00R - Power supply: 25EP0-216007-L0S - Fan-sink: 12SF2-01A067-00R - Mylar for AMD VEGA64 passive HS version: 25HA1-W29101-S5R **(as an option)**

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* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.
* All trademarks and logos are the properties of their respective holders.
* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.