

GIGABYTE G291-Z20 2U SERVER



EIGENSCHAPPEN

- Supports up to 8 x double slot GPU cards
- AMD EPYC™ 7001 series processor family
- 8-Channel RDIMM/LRDIMM DDR4, 8 x DIMMs
- 2 x SFP+ 10Gb/s LAN ports (Mellanox® ConnectX-4 Lx)
- 1 x Dedicated management port
- 8 x 2.5" hot-swappable HDD/SSD bays
- 2 x M.2 with PCIe Gen3 x4/x2 interface
- 8 x PCIe Gen3 expansion slots for GPUs
- 2 x PCIe x16 half-length low-profile slots for add-on cards
- Aspeed® AST2500 remote management controller
- Dual 2200W 80 PLUS Platinum redundant/hot-swap power supply



SPECIFICATIES

Dimensions (WxHxD, mm)	2U 448 x 87.5 x 800
Motherboard	MZ21-G20
CPU	AMD EPYC™ 7001 series processor family Single processor, 14nm, Socket SP3 Up to 32-core, 64 threads TDP up to 200W
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: 2666/2400/2133 MHz
LAN	2 x SFP+ 10Gb/s LAN ports (Mellanox® ConnectX-4 Lx) 1 x 10/100/1000 management LAN
Video	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM
Storage	8 x 2.5" hot-swappable HDD/SSD bays SAS card is required for SAS devices support Suggested 12Gb/s SAS cards: CRA4448 CRA4548
SATA	Supported
SAS	Supported via add-on SAS Card
RAID	-
Peripheral Drives	-



Expansion Slots	<p>8 x PCIe x16 slots (Gen3 x16 bus) for GPUs 2 x PCIe x16 (Gen3 x16 bus) Half-length low-profile slots 1 x M.2 slot: - M-key - PCIe Gen3 x4 - Supports NGFF-2242/2260/2280/22110 cards 1 x M.2 slot: - M-key - PCIe Gen3 x2 - Supports NGFF-2242/2260/2280/22110 cards - Maximum limitation of GPU card: 285mm (L) x 111.5mm (W) x 39.5mm (H) - System is validated for population with a uniform GPU model - Support is not provided for mixed GPU populations - For the latest GPU cards QVL, please contact your GIGABYTE representative</p>
Internal I/O	<p>1 x TPM header 1 x Sli-SAS connectors 2 x M.2 slots 1 x Serial header 1 x Buzzer</p>
Front I/O	<p>1 x Power button with LED 1 x ID button with LED 2 x LAN activity LEDs 1 x HDD activity LED 1 x System status LED 1 x Reset button</p>
Rear I/O	<p>2 x USB 3.0 1 x VGA 2 x SFP+ 1 x MLAN 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</p>
Backplane I/O	<p>8 x SAS/SATA ports Bandwidth: SATAIII 6Gb/s or SAS 12Gb/s per port SAS card is required for SAS devices support</p>
TPM	<p>1 x TPM header with LPC interface Optional TPM2.0 kit: CTM000</p>



Power Supply	<p>2 x 2200W redundant PSUs 80 PLUS Platinum AC Input: - 100-127V~/ 14A, 47-63Hz - 200-240V~/ 12.6A, 47-63Hz DC Output: - Max 1200W/ 100-127V~ +12.12V/ 95.6A +12Vsb/ 3.5A - Max 2200W/ 200-240V +12.12V/ 178.1A +12Vsb/ 3.5A NOTE: The system power supply requires C19 type power cord</p>
System Management	<p>Aspeed® AST2500 management controller Avocent® MergePoint IPMI 2.0 web interface: Network settings Network security settings Hardware information Users control Services settings IPMI settings Sessions control LDAP settings Power control Fan profiles Voltages, fans and temperatures monitoring System event log Events management (platform events, trap settings, email settings) Serial Over LAN vKVM & vMedia (HTML5)</p>
OS Supported	<p>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 or later</p>
Weight	<p>Net Weight: 29.5 kg</p> <p>Gross Weight: 34.7 kg</p>
System Fans	<p>8 x 80x80x38mm (15000rpm)</p>



Operating Properties	<p>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)</p>
Packaging Content	<p>1 x G291-Z20 1 x CPU heatsinks 1 x Rail kit</p>
Part Numbers	<ul style="list-style-type: none"> - Barebone with rail kit: 6NG291Z20MR-00-1* - Motherboard: 9MZ21G20NR-00-1* - Tool-less rail kit: 25HB2-A86102-K0R - CPU heatsink: 25ST1-153104-A8R - Power supply: 25EP0-222001-D0S * C19 type power cord 125V/15A (US): 25CP1-018000-Q0R (as an option) * C19 type power cord 250V/16A (EU): 25CP3-01830H-Q0R (as an option) * C19 type power cord 250V/15A (US): 25CP1-018300-Q0R (as an option) - 2 x Internal SSD kit: 6NG291281SR-00 (as an option)