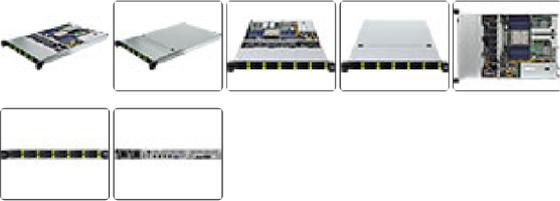


1U12E-GENOA/2L2T



- 1U Rackmount with 1+1, 80-PLUS Platinum, 1000W Slim PSU
- Single Socket SP5 (LGA 6096), supports AMD EPYC™ 9005*/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
- 24 DIMM slots (2DPC), supports DDR5 RDIMM, RDIMM-3DS
- 12 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays
- 2 FHHL PCIe5.0 x16
- Supports 2 M.2 (PCIe5.0 x4)
- 1 OCP NIC 3.0 (PCIe5.0 x16)
- 2 RJ45 (10GbE) by Broadcom BCM57416
- 2 RJ45 (1GbE) by Intel® i210
- Remote Management (IPMI)



SPECIFICATIONS

System	
Form Factor	1U Rackmount
Dimensions	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Support MB	GENOAD24QM3-2L2T/BCM
Front Panel	
Buttons	Power, Reset, ID buttons
LEDs	Power, LAN 1/2, System Event, ID LEDs
I/O Ports	1 Type-A (USB3.2 Gen1)
External Drive Bay / Storage	
Front Side Drive Bay	12 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays
Front Side Backplane	12-port NVMe/SATA/SAS* passive backplanes *SAS drive is only supported with additional RAID/HBA cards
Internal Side	2 M-key (PCIe5.0 x4); support 22110/2280/2260 form factor
Power Supply	
Type	1+1 Slim PSU
Output Watts	1000W
Efficiency	80-PLUS Platinum
AC Input	100-240V, 60/50Hz
System Fan	
Fan	6 PWM hot-swap 40 x 56 mm fans
Processor System	
CPU	Supports AMD EPYC™ 9005*/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors *A BIOS update is required to support AMD EPYC™ 9005 series processors
Socket	Single Socket SP5 (LGA 6096)
Thermal Design Power	Up to 300W
Chipset	System on Chip
System Memory	
Supported DIMM Quantity	24 DIMM slots (2DPC)
Supported Type	Supports DDR5 288-pin RDIMM, RDIMM-3DS
Max. Capacity per DIMM	RDIMM: 128GB (2Rx4) RDIMM-3DS: 512GB (2Rx4)

Max. DIMM Frequency	RDIMM: 4800 MHz (1DPC) RDIMM 1R: 4000 MHz (2DPC) RDIMM 2R: 3600 MHz (2DPC) RDIMM-3DS: 4800 MHz (1DPC); 3600 MHz (2DPC)
Voltage	1.1V
PCIe Expansion Slots (SLOT7 close to CPU)	
PCIe x 16	Rear: 2 FHHL PCIe5.0 x16
Ethernet	
Additional GbE Controller	Broadcom BCM57416: 2 RJ45 (10GbE) Intel® i210: 2 RJ45 (1GbE)
OCP slot	1 OCP NIC 3.0 (PCIe5.0 x16)
Server Management	
BMC Controller	ASPEED AST2600
IPMI Dedicated GLAN	1 Realtek RTL8211F for dedicated management GLAN
Graphics	
Controller	ASPEED AST2600
VRAM	DDR4 512MB
Rear I/O	
UID Button/LED	1 UID button w/ LED
Video Port	1 DB15 (VGA)
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (10GbE) 2 RJ45 (1GbE) 1 dedicated IPMI
System BIOS	
BIOS Type	AMI UEFI BIOS; 256 Mb (32MB) SPI Flash ROM
BIOS Features	ASRock Rack Instant Flash, ACPI 6.4 and above compliance wake up events, SMBIOS 3.5.0 and above, Plug and Play(PnP)
Hardware Monitor	
Temperature	CPU, MB, Card side, TR1 Temperature sensing
Fan	Fan Tachometer Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	VDDCR_CPU,VDDCR_SOC, VDDIO, VDD_18_S5, VDD_33_S5, VDD_11_S3, +3V, +5V, +12V, +BAT, +1V8SB, 3VSB, 5VSB
Environment	
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	Non operation humidity: 20% ~ 90% (Non condensing)

The specification is subject to change without notice in advance. ASRock Rack is the official trademark for ASRock Rack Inc., all the covers need to remain the original brand name without any modification. All other brands, names and trademarks are the property of their respective owners.



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