



GENOAD8UD-2T/X550

- 10.4" x 10.5"
- Single Socket SP5 (LGA 6096), supports AMD EPYC[™] 9005*/9004 (with AMD 3D V-Cache[™] Technology) and 97x4 series processors
- 8 DIMM slots (1DPC), supports DDR5 RDIMM, RDIMM-3DS
- 4 PCle5.0 / CXL2.0 x16
- 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s), 2 MCIO (PCIe5.0 x8), 1 MCIO (PCIe5.0 x4)
- Supports 2 M.2 (PCIe5.0 x4)
- Up to 16 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel[®] X550-AT2
- Remote Management (IPMI)
- Support ATX PSU or 12V DC-IN

SPECIFICATIONS

Dimensions	10.4" x 10.5"
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 400W
Chipset	System on Chip
System Memory	
Supported DIMM Quantity	8 DIMM slots (1DPC)
Supported Type	Supports DDR5 288-pin RDIMM, RDIMM-3DS
Max. Capacity per DIMM	RDIMM: 96GB (2R) RDIMM-3DS: 512GB (2S8Rx4)
Max. DIMM Frequency	4800 MHz
Voltage	1.1V
PCIe Expansion Slots (SL	OT7 close to CPU)
	SLOT6: PCle5.0 / CXL2.0* x16
	SLOT5: PCle5.0 / CXL2.0* x16
PCIe x 16	SLOT4: PCle5.0 / CXL2.0* x16
	SLOT3: PCle5.0 / CXL2.0* x16
	*Supports CXL1.1 while installing AMD EPYC 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
Other PCIe Expansion Co	nnectors
M.2 slot	2 M-key (PCle5.0 x4); support 2280/2260/2242/2230 form factor
Others	2 MCIO (PCIe5.0 x8)
	2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
	1 MCIO (PCIe5.0 x4)
SATA/SAS Storage	La construction de la constructi
PCH Built-in Storage	AMD EPYC™ 9005/9004 (16 SATA 6Gb/s): 2 MCIO
Ethernet	
Additional GbE Controller	Intel [®] X550-AT2: 2 RJ45 (10GbE)
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

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VGA Port	1 DB15 (VGA)	
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)	
RJ45	2 RJ45 (10GbE)	
1040	1 dedicated IPMI	
Internal Connector/Heade	ers	
Power Connector	1 (4-pin, ATX PSU signal) w/ ATX 24-pin adapter cable, 3 (8-pin, ATX 12V) support 12V DC-in	
Other Power Connectors	1 (6-pin) for HDD power	
Auxiliary Panel Header	1 (18-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate, SMBus	
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED	
COM Header	1	
Speaker Header	1 (4-pin)	
Fan Header	6 (6-pin)	
Thermal Sensor Header	1	
TPM Header	1 (13-pin, SPI)	
SGPIO Header	2	
HSBP	1	
SMBus header	1	
PMBus header	1	
IPMB Header	1	
Clear CMOS	1 (contact pads)	
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1)	
NMI Header	1	
LED Indicators		
Standby PWR LED	1 (5VSB)	
Fan Fail LED	6	
BMC heartbeat LED	1	
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, TR1 Temperature sensing	
•	CPU/Rear/Front Fan Tachometer	
Fan	CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)	
	CPU/Rear/Front Fan Multi-Speed Control	
Voltage	VCORE,VCCSA,VCCM,3V, 5V, 12V, +BAT, 3VSB, 5VSB,VCCIO,+2.5V_VPP	
Supported OS		
OS	Microsoft [®] Windows:	
	- Server 2019 (64bit)	
	- Server 2022 (64 bit)	
	Linux:	
	 RedHat Enterprise Linux Server 8.6 (64bit) / Server 8.7 (64bit) / Server 9.0 (64bit) / Server 9.1 (64bit) SUSE SLES 15.4(64 bit) 	
	- UBuntu 20.04.5 (64 bit) / 22.04 (64 bit) / 22.10 (64 bit)	
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	Hypervisor::	
	- VMWare® ESXi/ 7.0 U3i / 8.0	
	- CITRIX Hypervisor 8.2.1	
Environment		
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C	
Humidity	Non operation humidity: 20% ~ 90% (Non condensing)	

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