



BERGAMOD8-2L2T

- CEB (12" 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
- 2 PCIe5.0 / CXL2.0 x16, 2 PCIe5.0 x16, 2 PCIe5.0 / CXL2.0 x8
- 1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s), 4 MCIO (PCIe5.0 x8)
- Supports 2 M.2 (PCIe5.0 x4 or SATA 6Gb/s)
- Up to 10 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel® X710-AT2
- 2 RJ45 (1GbE) by Intel® i210
- Remote Management (IPMI)



SPECIFICATIONS

Physical Status	
Form Factor	CEB
Dimensions	12" 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: 64GB (2R) RDIMM-3DS: 512GB (2S8Rx4)
Max. DIMM Frequency	4800 MHz
Voltage	1.1V
PCIe Expansion Slots (SLOT7 close to CPU)	
PCIe x 16	SLOT6: PCIe5.0 / CXL2.0* x16 □ SLOT5: PCIe5.0 x16 SLOT4: PCIe5.0 x16 SLOT2: PCIe5.0 / CXL2.0* x16 □
PCIe x 8	SLOT3: PCIe5.0 / CXL2.0* x8 SLOT1: PCIe5.0 / CXL2.0* x8 *Supports CXL1.1 while installing AMD EPYC 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
Other PCIe Expansion Connectors	
M.2 slot	1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 2280 form factor 1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
Others	1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 4 MCIO (PCIe5.0 x8)
SATA/SAS Storage	
PCH Built-in Storage	AMD EPYC 9005/9004 (10 SATA 6Gb/s): 1 MCIO, 2 M.2
Ethernet	
Additional GbE Controller	Intel® X710-AT2: 2 RJ45 (10GbE) Intel® i210: 2 RJ45 (1GbE)
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
VGA 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
Internal Connector/Headers	
Power Connector	1 (4-pin, ATX PSU signal) w/ ATX 24-pin adapter cable, 3 (8-pin, ATX 12V)
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	8 (6-pin)
Thermal Sensor Header	1
TPM Header	1 (13-pin, SPI)
SMBus header	1
PMBus header	1
IPMB Header	1
Clear CMOS	1 (contact pads)
Front Lan LED Connector	1
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1)
NMI Header	1
LED Indicators	
Standby PWR LED	1 (5VSB)
80 Debug Port LED	1
Fan Fail LED	8
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
Fan	Fan Tachometer Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	VCORE0, VCORE1,VDDIO,VCCD,3V, 5V, 12V,BAT, 3.3VSB, 5VSB,VSOC, VDD_11,VDD_33,VDD_18,1P88V,1P0V
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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