ROMED8-2T/BCM

- ATX (12" x 9.6")
- Single Socket SP3 (LGA 4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology*)/7002 series processors
- 8 DIMM slots (1DPC), supports DDR4 RDIMM, LRDIMM, RDIMM/LRDIMM-3DS, NVDIMM-N
- 7 PCIe4.0 x16
- 2 OCuLink (PCIe4.0 x4)
- Supports 2 M.2 (PCIe4.0 x4 or SATA 6Gb/s)
- 10 SATA 6Gb/s
- 2 RJ45 (10GbE) by Broadcom BCM57416
- Remote Management (IPMI)

Specifications

Physical Status	
Form Factor	ATX
Dimensions	12" x 9.6" (305 mm x 244 mm)

Processor System	
CPU	Supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology*)/7002 Series Processors *A BIOS update is required to support AMD EPYC™ 7003 series processors with AMD 3D V-Cache™ Technology
Socket	Single Socket SP3 (LGA4094)
Chipset	System on Chip

System Memory	
Supported DIMM Quantity	8 DIMM slots (1DPC)
Supported Type	Supports DDR4 288-pin RDIMM, LRDIMM, RDIMM/LRDIMM-3DS, NVDIMM-N
Max. Capacity per DIMM	RDIMM: up to 64GB LRDIMM: up to 128GB RDIMM/LRDIMM-3DS: up to 256GB NVDIMM-N: up to 32GB
Max. DIMM Frequency	RDIMM/ LRDIMM/NVDIMM-N: max. 3200MHz
Voltage	1.2V

PCIe Expansion Slots (SLOT7 close to CPU)	
PCIe x 16	SLOT7: PCIe4.0 x16 SLOT6: PCIe4.0 x16 SLOT5: PCIe4.0 x16 SLOT4: PCIe4.0 x16 SLOT3: PCIe4.0 x16 SLOT2: PCIe4.0 x16 or PCIe4.0 x8 + 1 M.2+1 miniSASHD or no PCIe SLOT +2 OCuLink+1 M.2+1 miniSAS HD (by jumper) SLOT1: PCIe4.0 x16

Other PCIe Expansion Connectors	
M.2 slot	1 M-key* (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor 1 M-key* (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor *Share with SLOT2 by jumper
OCuLink	2 OCuLink* (PCIe4.0 x4) *Shared with SLOT2 by jumper

SATA/SAS Storage	

PCH Built-in Storage	AMD EPYC 7003/7002 (10 SATA 6Gb/s): 2 Mini-SAS HD, 2 M.2
Ethernet	
Additional GbE Controller	1 Broadcom BCM57416: 2 RJ45 (10GbE)
Server Management	
BMC Controller	ASPEED AST2500
IPMI Dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN
Graphics	
Controller	ASPEED AST2500
VRAM	DDR4 512MB
Rear I/O	
UID Button/LED	1
VGA Port	1 DB15
Serial Port	1 DB9
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (10GbE) 1 dedicated IPMI
Internal Connector/Headers	
Power Connector	1 (24-pin, ATX main power), 1 (8-pin, ATX 12V), 1 (4-pin, ATX 12V)
Auxiliary Panel Header	1 (includes chassis intrusion, location button & LED, and front LAN LED)
System Panel	1 (rst, pwrbtn, hddled, pwrled)
Speaker Header	1 (4-pin)
Fan Header	7 (6-pin) [1CPU/4Front/2Rear]
Thermal Sensor Header	2
TPM Header	1 (17-pin, LPC), 1 (13-pin, SPI)
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 5vsb	1 (5VSB)
80 Debug Port LED	1
Fan Fail LED	7
BMC heartbeat LED	1
System BIOS	
BIOS Type	32MB AMI UEFI Legal BIOS
BIOS Features	Plug and Play (PnP), ACPI 6.3 Compliance Wake Up Events, SMBIOS 3.3.0, ASRock Rack Instant Flash
Hardware Monitor	
Temperature	CPU, MB, Card side, TR1, TR2 Temperature sensing
Fan	Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	Vsoc,Vcpu, VCCM, VPPM, 3V/5V/12V, +BAT, 3VSB, 5VSB
Supported OS	
OS	Microsoft® Windows: - Server 2016 (64bit) - Server 2019 (64bit) - Server 2022 (64 bit) Linux: - RedHat Enterprise Linux Server Server 8.2 (64bit) / 7.9 (64bit) - CentOs 8.5 (64 bit) / 8.2 (64 bit) / 7.9 (64 bit) - SUSE SLES 15.4(64 bit) / 15.2(64 bit) / 12.5(64bit)

	- UBuntu 22.04 (64 bit) / 20.04.4 (64 bit) /18.04.5 (64 bit) / 16.04.7 (64 bit)
	Hypervisor::
	- VMWare® ESXi/ 7.0 U3d / 7.0 U1 / 6.7 U3
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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