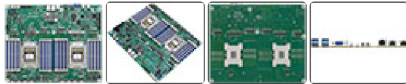
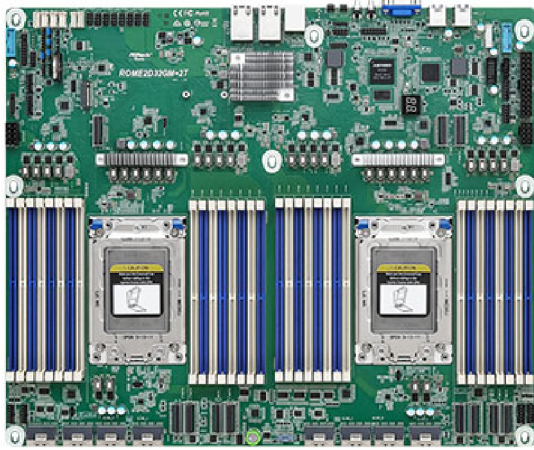


## ROME2D32GM-2T

- Proprietary (16.53" x 14.56")
- Dual Socket SP3 (LGA 4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology\*)/7002 series processors
- 16+16 DIMM slots (2DPC), supports DDR4 RDIMM, LRDIMM, RDIMM/LRDIMM-3DS, NVDIMM-N
- 6 Low profile SlimSAS (PCIe4.0x8), 5 Low profile SlimSAS (PCIe4.0x8 or 8SATA 6Gb/s), 8 SlimSAS (PCIe4.0x8)
- Supports 1 M.2 (PCIe4.0 x4)
- 32 SATA 6Gb/s
- 2 RJ45 (10GbE) by Intel® X550-AT2
- Remote Management (IPMI)



### SPECIFICATIONS

<b>Physical Status</b>	
Form Factor	Proprietary
Dimensions	16.53" x 14.56"
<b>Processor System</b>	
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	Dual Socket SP3 (LGA4094)
Thermal Design Power	280 W
Chipset	System on Chip
<b>System Memory</b>	
Supported DIMM Quantity	16+16 DIMM slots (2DPC)
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
<b>Other PCIe Expansion Connectors</b>	
M.2 slot	1 M-key (PCIe4.0 x4), supports 22110/2280 form factor [CPU0]
Others	2 Low profile SlimSAS (PCIe4.0x8), 3 Low profile SlimSAS (PCIe4.0x8 or 8SATA 6Gb/s)*, 4 SlimSAS (PCIe4.0x8) [CPU0] 4 Low profile SlimSAS (PCIe4.0x8), 2 Low profile SlimSAS (PCIe4.0x8 or 8SATA 6Gb/s), 4 SlimSAS (PCIe4.0x8) [CPU1] *SLIM5_1 from CPU0 support PCIe only while installing 2 processors
<b>SATA/SAS Storage</b>	
PCH Built-in Storage	AMD EPYC 7003/7002: CPU0: 16 from low-profile SlimSAS connector CPU1: 16 from low-profile SlimSAS connector
<b>Ethernet</b>	
Additional GbE Controller	1 Intel® X550-AT2: 2 RJ45 (10GbE)
<b>Server Management</b>	
BMC Controller	ASPEED AST2500: IPMI2.0 with iKVM and vMedia support
IPMI Dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN
<b>Graphics</b>	
Controller	ASPEED AST2500: 1 DB15, 1 (15-pin header)
<b>Rear I/O</b>	
UID Button/LED	1
VGA Port	1 DB15

USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1) [CPU0], 2 Type-A (USB3.2 Gen1) [CPU1]
RJ45	2 RJ45 (10GbE)
<b>Internal Connector/Headers</b>	
Power Connector	1 (24-pin, ATX main power), 2 (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
VGA header	1
Fan Header	8 (6-pin)
TPM Header	1 (17-pin, LPC), 1 (13-pin, SPI)
SGPIO Header	8
HSBP	2
SMBus header	3
PMBus header	1
IPMB Header	1
Clear CMOS	1
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1) [CPU0], 1 (19-pin, 2 USB3.2 Gen1) [CPU1]
NMI Header	1
<b>LED Indicators</b>	
Standby PWR LED	1
80 Debug Port LED	1
Fan Fail LED	8
<b>System BIOS</b>	
BIOS Type	32MB AMI UEFI Legal BIOS
BIOS Features	Plug and Play (PnP), ACPI 2.0 Compliance Wake Up Events, SMBIOS 2.8.0, ASRock Rack Instant Flash
<b>Hardware Monitor</b>	
Temperature	CPU, MB, Card side, X550 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, +1.8V, +3V, +5V, +12V, BAT, +1.8VSB, +3VSB, +5VSB
<b>Environment</b>	
Temperature	Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C

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