

## 2U4G-ROME/2T



- 2U Rackmount with 2000W Redundant PSU (1+1)
- Supports AMD EPYC™ 7003 and 7002 series Processors
- Supports 8 x DDR4 DIMM slot, 3200/2933 RDIMM, LR DIMM
- Supports 4 x PCIe4.0 x16 GPGPU/MIC, 1 PCIe4.0 x16
- Supports 2 x 10G base-T by Intel® X550
- Supports 4 x 2.5" SATA 6GB/s HDDs(1x SATA3 HDD could support NVME or SATA3 6GB/s HDDs) + 1x NVME


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## Specifications

| System                       |  |
|------------------------------|--|
| Form Factor                  | - 2U Rackmount   |
| Chassis Model                | - 2U4G-ROME  |
| Dimensions                   | - 438x 795x 87.5 mm(without ear)   |
| Support MB                   | - ATX, 12" x 9.6" (ROMED8QM-2T)  |
| Front Panel                  |  |
| Buttons                      | - Power button<br>- UID button   |
| LEDs                         | - 2 x LAN LEDs (L1, L2, LED)<br>- System event LED   |
| I/O Ports                    | - 2 x USB 2.0 ports  |
| External Drive Bay / Storage |  |
| Front Side Drive Bay         | - 4 x2.5" SATA 6GB/s HDDs(1x SATA3 HDD could support NVME or SATA3 6GB/s HDDs) + 1x NVME   |
| Power Supply                 |  |
| Type                         | - 2 (1+1), Redundant   |
| Output Watts                 | - 2000W, Platinum  |
| AC Input                     | - High Line 200-240V, 50/60Hz  |
| System Fan                   |  |
| Fan                          | - 80 x 38 mm x 6   |
| GPGPU card                   |  |
| GPGPU Watts                  | - Max 350w /per card   |
| Support GPGPU                | - 4 x PCIe4.0 x16 GPGPU/MIC card (Double width)  |
| Physical Status              |  |
| Form Factor                  | - ATX  |
| Dimensions                   | - 12"x9.6"   |
| Processor System             |  |
| CPU                          | - Supports AMD EPYC™ 7003* and 7002 Series Processors<br><br>*A BIOS update is required to support AMD EPYC™ 7003 Series Processors. Please contact ASRock Rack Technical Support for the necessary firmwares. |

|  |   |
|--|---|
| Socket   | - Single Socket SP3 (LGA4094)   |
| Chipset  | - N/A   |
| <b>System Memory</b>                             |   |
| Supported DIMM Quantity                          | - 8 DIMM slots  |
| Supported Type                                   | - 8 Channels memory technology<br>- Support DDR4 3200/2933 RDIMM, and LRDIMM  |
| Max. Capacity per DIMM                           | - RDIMM: 64GB, 32GB, 16GB<br>- LRDIMM: 256GB, 128GB, 64GB   |
| DIMM Frequency                                   | - RDIMM: 3200/2933MHz<br>- LRDIMM: 3200/2933MHz   |
| Voltage  | - 1.2V  |
| <b>PCIe Expansion Slots (SLOT7 close to CPU)</b> |   |
| PCIe x 16  | - 1 PCIe4.0 x16 (in the rear side)  |
| Mezzanine slot                                   | - 1 x OCP Mezzanine Type A (Gen3 x8 )<br>- 1 x OCP Mezzanine Type B (Gen3 x8 )  |
| M.2  | - 1 (2230/2242/2260/2280, SATA x1 or PCIe Gen4 x4)  |
| <b>Ethernet</b>                                  |   |
| Interface  | - 10000/1000 /100 /10 Mbps by Intel® X550   |
| Additional GbE Controller                        | - 2 x RJ45 10G base-T by Intel® X550<br>- 1 x RJ45 Dedicated IPMI LAN port by RTL8211E<br>- Supports Wake-On-LAN<br>- Supports Energy E_ficient Ethernet 802.3az<br>- Supports Dual LAN with Teaming function<br>- Supports PXE<br>- LAN1 supports NCSI |
| <b>Server Management</b>                         |   |
| BMC Controller                                   | - ASPEED AST2500  |
| IPMI Dedicated GLAN                              | - 1 x Realtek RTL8211E for dedicated management GLAN  |
| Features   | - Watch Dog<br>- NMI  |
| <b>Graphics</b>                                  |   |
| Controller                                       | - ASPEED AST2500  |
| VRAM   | - DDR4 256Mb  |
| <b>Rear I/O</b>                                  |   |
| UID Button/LED                                   | - 1 UID button w/ LED   |
| VGA Port   | - 1 DB15 (VGA)  |
| Serial Port                                      | - 1 DB9 (COM)   |
| USB 3.2 Gen1 Port                                | - 2 Type-A (USB3.2 Gen1)  |
| RJ45   | - 2 RJ45 (10GbE)<br>- 1 dedicated IPMI  |
| <b>Hardware Monitor</b>                          |   |
| Temperature                                      | - CPU Temperature Sensing<br>- MB/TR1/Card side Temperature Sensing   |
| Fan  | - CPU/Rear/Front Fan Tachometer<br>- CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)<br>- CPU/Rear/Front Fan Multi-Speed Control   |
| Voltage  | - Voltage Monitoring: Vsoc,Vcpu, VCCM, VPPM, 3V/5V/12V, +BAT, 3VSB, 5VSB  |
| <b>Environment</b>                               |   |
| 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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