1.2 Specifications

ROMED4ID-2T	
MB Physical Status	
Form Factor	Proprietary
Dimension	6.7" x 8.2" (17.0 cm x 20.8 cm)
Processor System	
CPU	AMD EPYC™ 7002* Series Processors Family **Please refer to CPU AVL on the ASRock Rack's website for latest update.*
Socket	Single Socket SP3 (LGA4094)
Chipset	N/A
System Memory	
Type	- Quad Channel DDR4 memory technology (1DPC) - Supports DDR4 RDIMM, LRDIMM, 3DS, and NVDIMM
DIMM Size Per DIMM	- RDIMM: 64GB, 32GB, 16GB, 8GB - LRDIMM: 256GB, 128GB, 64GB, 32GB - 3DS: 32GB, 16GB, 8GB - NV DIMM: 32GB
DIMM Frequency	- RDIMM: 3200MHz - LRDIMM: 3200MHz - 3DS: 3200MHz - NVDIMM: 2666MHz
Voltage	1.2V
Expansion Slot	
PCIe 4.0 x 16	PCIE7: Gen4 x16 link
Storage	
SlimSAS	6 x Slimline SAS (PCIe4.0 x8 or 8 SATA 6Gb/s)
RAID Support	N/A
M.2 Slot	1 (M2_1: 2280, 1 M-key (SATA 6Gb/s or PCIe4.0 x4)
Ethernet	
Interface	10000/1000 /100 Mbps by Intel X550
LAN Controller	- 2 x RJ45 10G base-T by Intel® X550-AT2 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy Effcient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI
Management	
BMC Controller	ASPEED AST2500
IPMI Dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN

Features	Watch Dog NMI
Graphics	
Controller	ASPEED AST2500
Rear Panel I/O	
VGA Port	1 x D-Sub
USB 3.2 Gen1 Port	2
LAN Port	- 2 RJ45 (10GbE) + 1 dedicated IPMI - LAN Ports with LED (ACT/LINK LED and SPEED LED)
UID	1
Internal Connector	
Auxiliary Panel Header	1 (includes chassis intrusion, location button & LED, and front LAN LED)
TPM Header	1
IPMB Header	1
Fan Header	3 Fans x 4-pin
ATX Power	1 x (8-pin) + 1 x (8-pin) + 1 x (4-pin) + 1 x (4-pin)
USB 2.0 Header	1 (supports 2 USB 2.0 ports)
M.2	1 (M2_1: 2280 (SATA 6Gb/s or PCIe4.0 x4))
SlimSAS	6
PSU SMB	1
Smbus from BMC	1
Thermal Sensor Header	1
Speaker(4pin)	1
ClearCMOS	1 (short pad)
CPU1_HSBP1	1
OH/FanFail LED	3 (only Fan Fail LED)
COM Header	1
System BIOS	
BIOS Type	32MB AMI UEFI Legal BIOS
BIOS Features	- Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash
Hardware Monitor	
Temperature	- CPU Temperature Sensing - MB/TR1/Card side Temperature Sensing
Fan	- Fan Tachometer - CPU Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU Temperature) - Fan Multi-Speed Control
Voltage	Voltage Monitoring: Vsoc,Vcpu, VCCM, VPPM, 3V/5V/12V, +BAT, 3VSB, 5VSB

Support OS	
OS	Microsoft® Windows® - Server 2016 (64 bit) - Server 2019 (64 bit) Linux® - RedHat Enterprise Linux Server 8.2 (64 bit) / 7.9 (64 bit) - CentOs 8.2 (64 bit) / 7.9 (64 bit) - SUSE SLES 15.2 (64 bit) / 12.5 (64 bit) - UBuntu 20.04.1 (64 bit) / 18.04.5 (64 bit) / 16.04.7 (64 bit) Hypervisor - VMWare ESXi 6.7 u3 / 7.0 u1 - vSphere 6.7 u3 / 7.0 u1 - CITRIX Hypervisor 8.1.0 ** Please refer to our website for the latest OS support list.*
Environment	
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C

NOTE: Please refer to our website for the latest specifications.

This motherboard supports Wake from on Board LAN. To use this function, please make sure that the "Wake on Magic Packet from power off state" is enabled in Device Manager > Intel® Ethernet Connection > Power Management. And the "PCI Devices Power On" is enabled in UEFI SETUP UTILITY > Advanced > ACPI Configuration. After that, onboard LAN1&2 can wake up S5 under OS.

If you install Intel® LAN utility or Marvell SATA utility, this motherboard may fail Windows® Hardware Quality Lab (WHQL) certification tests. If you install the drivers only, it will pass the WHQL tests.