All Purpose Power

AMD Platform Solutions

Performance Optimized, Power-efficient and Perfect Density

Apr. 2021
### TRX40D8-2N2T

3rd Gen AMD Ryzen Threadripper Server Board with Dual 10GbE and IPMI

#### Form Factor
- ATX (12" x 9.6")

#### Processor System
- **CPU Socket**: sTRX4 (LGA4094P), supports 3rd Gen AMD Ryzen™ Threadripper™ Series Processors
- **PCH**: AMD TRX40

#### Memory
- **Capacity**: 8 DIMM slots (2DPC), supports DDR4 ECC and non-ECC UDIMM, up to 3200MHz 32GB per DIMM

#### Expansion
- **PCIe slot**: 3 PCIe 4.0 x16, 1 PCIe 4.0 x8, 1 OCulink (PCIe 4.0 x4) [BTO]
- **Others**: 2 M-key (PCIe 4.0 x4 or SATA 6Gb/s) [BTO]

#### Storage
- **M.2**: 2 M-key [PCIe 4.0 x4 or SATA 6Gb/s]; Form factor: 22110/2280/2260/2242
- **SATA port**: AMD TRX40: 4 SATA 6Gb/s (2 supports SATA DOM), ASM 1061: 2 SATA 6Gb/s

#### Network
- **RJ45**: 2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (2.5 GbE) by Intel® i225

#### Management
- **BMC**: ASPEED AST2500: IPMI (Intelligent Platform Management Interface) 2.0
- **IPMI Dedicated LAN**: 1 x Realtek RTL8211E for Dedicated Management GLAN

#### I/O
- **USB**: USB 3.2 Gen 2 Port: 1 rear Type A, 1 rear Type C, 1 via header, 1 type A; USB 3.2 Gen 1 Port: 2 rear Type A
### X399D8A-2T

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form Factor</strong></td>
<td>ATX (12” x 9.6”)</td>
</tr>
<tr>
<td><strong>Processor Support</strong></td>
<td>Single Socket LGA SP3 4094P, Supports AMD TR4 Socket Ryzen Threadripper Series Processors</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>AMD X399</td>
</tr>
<tr>
<td><strong>Memory Capacity</strong></td>
<td>8 DIMM Slots, Supports Dual Channel DDR4 3600+(OC)/3200(OC)/2933(OC)/2666/2400/2133 ECC and non-ECC U DIMM (Max 64GB(SR)/128GB(DR))</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>SATA Controller 8 x SATA 6Gb/s (including 1 x M.2)</td>
</tr>
<tr>
<td></td>
<td>Additional ASMedia 1061: 2 x SATA3 6.0Gb/s</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td>3 x PCIe 3.0 x16, 2 x PCIe 3.0 x8, 1 x PCIe 3.0 x4</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>LAN Controller 2 x RJ45 10GLAN by Intel® X550-AT2</td>
</tr>
<tr>
<td></td>
<td>LAN Port RJ45: 2(10G) + 1(IPMI)</td>
</tr>
<tr>
<td><strong>USB 3.0</strong></td>
<td>4 (2 from Rear I/O, 2 via Header)</td>
</tr>
<tr>
<td><strong>USB 3.1</strong></td>
<td>2 (1 Type A, 1 Type C from Rear I/O)</td>
</tr>
<tr>
<td><strong>M.2</strong></td>
<td>1x M-Key(2230/2242/2260/2280/22110, support PCIe3.0(x4) or SATA3 6Gb/s)</td>
</tr>
<tr>
<td></td>
<td>1x M-keyl(2230/2242/2260/2280/22110, Support PCIe3.0(x4), reserved BOM option for OCulink )</td>
</tr>
</tbody>
</table>
### X470D4U

**Form Factor**  
Micro-ATX (9.6” x 9.6”)

**Processor Support**  
Single Socket AM4 PGA 1331, AMD Ryzen™ PRO/3000 and 2000 Series Desktop Processors

**Chipset**  
AMD Promontory X470

**Memory**  
4 DIMM Slots, Dual Channel DDR4 2666/2400/2133/1866 ECC UDIMM (Max. 64GB)

**Storage**  
SATA controller  
- 6 x SATA3 6.0 Gb/s (1 x SATA DOM port)

**Expansion Slots**  
2 x PCIe 3.0 x16, 1 x PCIe 3.0 x8

**Ethernet**  
LAN Controller  
Intel® I210

**System management**  
BMC Controller  
ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0

**USB 3.0**  
4 (2 from Rear I/O, 2 via Header)

**M.2**  
2 x M.2_2: M-key (2242/2260/2280/22110, Supports PCIe 3.0 x2 or SATA 6Gb/s),  
M.2_1: M-key (2242/2260/2280/22110, Supports PCIe 2.0 x4 only)

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### X470D4U2-2T

**Form Factor**  
Micro-ATX (9.6” x 9.6”)

**Processor Support**  
Single Socket AM4 PGA 1331, AMD Ryzen™ PRO/3000 and 2000 Series Desktop Processors

**Chipset**  
AMD Promontory X470

**Memory**  
4 DIMM Slots, Dual Channel DDR4 2666/2400/2133/1866 ECC UDIMM (Max. 64GB)

**Storage**  
SATA controller  
- 6 x SATA3 6.0 Gb/s (1 x SATA DOM port)

**Expansion Slots**  
2 x PCIe 3.0 x16, 1 x PCIe 3.0 x8

**Ethernet**  
LAN Controller  
Intel® I210

**System management**  
BMC Controller  
ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0

**USB 3.0**  
4 (2 from Rear I/O, 2 via Header)

**M.2**  
2 x M.2_2: M-key (2242/2260/2280/22110, Support PCIe 3.0 x2 or SATA 6Gb/s),  
M.2_1: M-key (2242/2260/2280/22110, Supports PCIe 2.0 x4 only)
### X570D4U-2L2T

**PCle4.0 Ryzen Server Motherboard with Dual 10GbE and IPMI**

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>micro ATX (9.6&quot; x 9.6&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor System</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>AM4 PGA 1331, supports 3rd Gen AMD Ryzen\textregistered\ Processors and 2nd Gen AMD Ryzen\textregistered\ Processors with Radeon\textregistered\ Graphics</td>
</tr>
<tr>
<td>PCH</td>
<td>AMD X570</td>
</tr>
<tr>
<td>Memory</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>4 DIMMs slots (2DPC); supports DDR4 ECC/UDIMM up to 3200MHz, 32GB</td>
</tr>
<tr>
<td>Expansion</td>
<td></td>
</tr>
<tr>
<td>PCIe slot</td>
<td>1 PCIe4.0 x16/x8, 1 PCIe4.0 x1, 1 PCIe4.0 x8</td>
</tr>
<tr>
<td>Others</td>
<td>-</td>
</tr>
<tr>
<td>Storage</td>
<td></td>
</tr>
<tr>
<td>M.2</td>
<td>1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2280/2242 form factor [CPU]</td>
</tr>
<tr>
<td></td>
<td>1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [PCH]</td>
</tr>
<tr>
<td></td>
<td>8 SATA 6Gb/s, 1 supports SATA DOM</td>
</tr>
<tr>
<td>Network</td>
<td></td>
</tr>
<tr>
<td>RJ45</td>
<td>2 RJ45 (10Gbe) by Intel\textregistered\ X550-AT2, 2 RJ45 (1Gbe) by Intel\textregistered\ i210</td>
</tr>
<tr>
<td>Management</td>
<td>ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td></td>
<td>1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td>I/O</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header</td>
</tr>
</tbody>
</table>

- PCIe4.0 is supported by 3rd Gen AMD Ryzen\textregistered\ Processors only
- HDMI is supported by 2nd Gen AMD Ryzen\textregistered\ Processors with Radeon\textregistered\ Graphics only

### X570D4I-2T

**Ultra Compact Server Board Equipped with Dual 10GbE and IPMI**

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>Mini-ITX (6.7&quot; x 6.7&quot;)</th>
</tr>
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<tbody>
<tr>
<td>Processor System</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>AM4 PGA 1331, supports 3rd Gen AMD Ryzen\textregistered\ Processors and 2nd Gen AMD Ryzen\textregistered\ Processors with Radeon\textregistered\ Graphics</td>
</tr>
<tr>
<td>PCH</td>
<td>AMD X570</td>
</tr>
<tr>
<td>Memory</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>4 DIMM slots (2DPC); supports DDR4 ECC/SO-DIMM up to 2933MHz, 32GB</td>
</tr>
<tr>
<td>Expansion</td>
<td></td>
</tr>
<tr>
<td>PCIe slot</td>
<td>1 PCIe4.0 x16</td>
</tr>
<tr>
<td></td>
<td>2 Oculink (PCIe4.0 x4 or 4 SATA 6Gb/s)</td>
</tr>
<tr>
<td>Others</td>
<td>-</td>
</tr>
<tr>
<td>Storage</td>
<td></td>
</tr>
<tr>
<td>M.2</td>
<td>1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor</td>
</tr>
<tr>
<td></td>
<td>8 via Oculink</td>
</tr>
<tr>
<td>SATA port</td>
<td></td>
</tr>
<tr>
<td>Network</td>
<td></td>
</tr>
<tr>
<td>RJ45</td>
<td>2 RJ45 (10GbE) by Intel\textregistered\ X550-AT2</td>
</tr>
<tr>
<td>Management</td>
<td>ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td></td>
<td>1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td>I/O</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header</td>
</tr>
</tbody>
</table>

- PCIe4.0 is supported by 3rd Gen AMD Ryzen\textregistered\ Processors only
### EPYC3251D4I-2T vs EPYC3101D4I-2T

<table>
<thead>
<tr>
<th><strong>Form Factor</strong></th>
<th>Mini-ITX (6.7” x 6.7”)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor Support</strong></td>
<td>AMD EPYC™ 3251 (8 cores, 16 threads)</td>
</tr>
<tr>
<td><strong>Socket</strong></td>
<td>SoC</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>4 DIMM Slots, DDR4 2666/2400/2133/1866 ECC UDIMM, RDIMM</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>SATA Controller</td>
</tr>
<tr>
<td><strong>M.2</strong></td>
<td>1(M-Key,2280/22110, Support PCIe 3.0(x4) or SATA3 6.0Gb/s)</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td>1 x PCIe 3.0 x 16</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>LAN Controller</td>
</tr>
<tr>
<td><strong>System Management</strong></td>
<td>BMC Controller</td>
</tr>
<tr>
<td><strong>USB 3.2 Gen 1</strong></td>
<td>2(from Rear I/O)</td>
</tr>
<tr>
<td><strong>LAN Port</strong></td>
<td>Intel® X550-AT2</td>
</tr>
<tr>
<td><strong>IPMI Dedicated LAN</strong></td>
<td>ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td><strong>LAN Controller</strong></td>
<td>RJ45:2(10G)+1(IPMI)</td>
</tr>
<tr>
<td><strong>BMC Controller</strong></td>
<td>1 x Realtek RTL8211E for dedicated management GLAN PIN</td>
</tr>
</tbody>
</table>
### EPYC3451D4I2-2T

**Form Factor**
- Mini-ITX (6.7” x 6.7”)

**Processor System**
- CPU: AMD EPYC™ 3451 Processor
- PCH: System on chip

**Memory**
- Capacity: 4 DIMM slots (1DPC); supports DDR4 ECC UDIMM/RDIMM/LRDIMM up to 2666MHz, 32GB

**Expansion**
- PCIe slot: 1 PCIe3.0 x16
- Others: 1 OCulink (PCIe3.0 x8 or 8 SATA 6Gb/s), 1 OCulink (PCIe3.0 x8), 1 OCulink (PCIe3.0 x4 or 4 SATA 6Gb/s)

**Storage**
- M.2
- SATA port: 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor
- 2 SATA 7-pin*, 12 from OCulink connectors

**Network**
- RJ45: 2 RJ45 (10GbE) by Intel® X550-AT2

**Management**
- BMC: ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
- Dedicated IPMI: 1 RJ45 via Realtek RTL8211E

**I/O**
- USB: 4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header

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### EPYC3451D4U-2T2O8R

**Form Factor**
- micro ATX (9.6” x 9.6”)

**Processor System**
- CPU: AMD EPYC™ 3451 Processor
- PCH: System on chip

**Memory**
- Capacity: 4 DIMM slots (1DPC); supports DDR4 ECC UDIMM/RDIMM/LRDIMM up to 2666MHz, 64GB/ LRDIMM up to 2666MHz, 128GB

**Expansion**
- PCIe slot: 1 PCIe3.0 x16, 3 PCIe3.0 x8***
- Others: 2 OCulink (PCIe3.0 x4 or 4 SATA 6Gb/s), 4 OCulink (PCIe3.0 x4)**

**Storage**
- M.2
- SATA port: 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
- 4 via mini-SAS HD*, 8 from OCulink connectors
- 8 via mini-SAS HD by SAS3008

**Network**
- RJ45: 2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (GbE) by Intel® i210
- SFP+: 2 SFP+ (10GbE) by CS4227

**Management**
- BMC: ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
- Dedicated IPMI: 1 RJ45 via Realtek RTL8211E

**I/O**
- USB: 4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header

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* mini-SAS HD shared with SLOT4
** OCulink (PCIe3.0x4 or 4 SATA 6Gb/s) shared with SLOT4, 1 OCulink (PCIe3.0x4 or 4 SATA 6Gb/s) shared with M.2[BTO], 4 OCulink (PCIe3.0 x4) shared with SLOT5 and SLOT7 [BTO]
*** 2 PCIe3.0 x16, 2 PCIe3.0 x8 when SAS3008 disabled
# ROME2D32LM3

**Thermal Optimized Dual AMD EPYC 7003 Server Board for CPU/Memory Intensive Workloads**

**Form Factor**
- Proprietary (18.8607” x 17.0149”)

**Processor System**
- CPU: 1+1 Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
- PCH: System on chip

**Memory**
- Capacity: 16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB

**Expansion**
- PCIe slot: 2 PCIe 4.0 x24, 1 PCIe 4.0 x16
- OCP: 1 OCP NIC 3.0 (PCIe 4.0 x16)
- Others: 1 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 7 Slimline (PCIe 4.0 x8)

**Storage**
- M.2: 1 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 2280/2222 form factor
- SATA port: 2 SATA 7-pin support SATA DOM, 4 via mini-SAS HD

**Network**
- RJ45: -

**Management**
- BMC: ASPEED AST2500: IPMI (Intelligent Platform Management Interface) 2.0
- Dedicated IPMI: 1 RJ45 via Realtek RTL8211E

**I/O**
- USB: 4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via 19-pin header

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# ROME2D32GM-2T

**19 Slimline SAS PCIe 4.0 x 8 Providing Ultimate Flexibility to Any Possibility**

**Form Factor**
- Proprietary (16.53” x 14.56”)

**Processor System**
- CPU: Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors
- PCH: System on chip

**Memory**
- Capacity: 16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB

**Expansion**
- Others: 4 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 15 Slimline (PCIe 4.0 x8)

**Storage**
- M.2: 1 M-key (PCIe 4.0 x4), supports 22110/2280 form factor

**Network**
- RJ45: 2 RJ45 (10GbE) by Intel® X550-AT2

**Management**
- BMC: ASPEED AST2500: IPMI (Intelligent Platform Management Interface) 2.0
- Dedicated IPMI: 1 RJ45 via Realtek RTL8211E

**I/O**
- USB: 8 USB3.2 Gen 1 Ports: 4 rear Type A, 4 via 19-pin headers
## ROME2D16-2T
Mainstream Dual Socket Server Board Powered by EPYC 7003

### Form Factor
- EEB (12" x 13")

### Processor System
- **CPU**: Dual Socket SP3 (LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors
- **PCH**: System on chip

### Memory
- **Capacity**: 8+8 DIMM Slots (1DPC), Supports DDR4 R-DIMM up to 3200MHz, 64GB/LR-DIMM up to 3200MHz, 256GB

### Expansion
- **PCle slot**: 3 PCIe4.0 x16 [CPU0], 2 PCIe4.0 x16, 1 PCIe4.0 x8 [CPU1]
- **Others**: 2 Ocuilink (PCIe4.0 x4 or 4 SATA 6Gb/s) [CPU0, CPU1]
  1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU0]*, 1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU1]

### Storage
- **M.2**: 1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor [CPU0]
- **SATA Port**: 1 M-key (PCIe4.0 x4), supports 22110/2280/2242 form factor [CPU0]
  4 SATA 7-pin, 8 from Slimline connector, 8 from Ocuilink connectors

### Network
- **RJ45**: 2 RJ45 (10GbE) by Intel® X550-AT2

### Management
- **BMC**: ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
- **Dedicated IPMI**: 1 RJ45 via Realtek RTL8211E

### I/O
- **USB**: 4 USB3.2 Gen1 ports: 2 rear Type A, 2 via 19-pin header

*Slimline from CPU0 support PCIe only while installing 2 processors

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## ROME2D16HM3
Highly Expandable Dual Socket EPYC 7003 Half-width Server Board

### Form Factor
- Half-width, 6.6" x 20"

### Processor System
- **CPU**: Dual Socket SP3 (LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors
- **PCH**: System on chip

### Memory
- **Capacity**: 8+8 DIMM Slots (1DPC), Supports DDR4 R-DIMM up to 3200MHz, 64GB/LR-DIMM up to 3200MHz, 256GB

### Expansion
- **PCle slot**: 2 high density PCIe4.0 x24 [CPU0]
- **OCP**: 1 OCP NIC 3.0 [CPU0]
- **Others**: 6 Slimline (PCIe4.0 x8), 2 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU1]
  1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU0]*

### Storage
- **M.2**: 2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 and 2280/2260 formfactor [CPU0]
- **SATA Port**: 2 SATA 7-pin*, 8 from Slimline connector [CPU0]
  16 from Slimline connectors [CPU1]

### Network
- **RJ45**: -

### Management
- **BMC**: ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
- **Dedicated IPMI**: 1 RJ45 via Realtek RTL8211E

### I/O
- **USB**: 4 USB3.2 Gen1 ports: 2 rear Type A, 2 via 19-pin header

*Enabled when M.2_1 populated with SATA device
**ROMED8QM-2T**

**Form Factor**
- ATX (12” x 9.6”)

**Processor System**
- CPU: Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
- PCH: System on chip

**Memory**
- Capacity: 8 DIMM Slots (1DPc); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB

**Expansion**
- PCIe slot: 2 PCIe 4.0 x16
- OCP: 1 OCP 2.0 mezzanine connector A and B (PCIe x16)
- Others: 3 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 4 Slimline (PCIe 4.0 x8)

**Storage**
- M.2: 1 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 2280/2242 form factor
- SATA port: 4 via mini-SAS HD

**Network**
- RJ45: 2 RJ45 (10GbE) by Intel® X550-AT2

**Management**
- BMC: ASPEED AST2500: IPMI (Intelligent Platform Management Interface) 2.0
- Dedicated IPMI: 1 RJ45 via Realtek RTL8211E

**I/O**
- USB: 4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via 19-pin header

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**ROMED8HM3**

**Form Factor**
- Half-Width (6.5” x 17”)

**Processor System**
- CPU: Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
- PCH: System on chip

**Memory**
- Capacity: 8 DIMM Slots (1DPc); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB

**Expansion**
- PCIe slot: 1 high density PCIe 4.0 x24, 1 high-density PCIe 4.0 x16
- OCP: 1 OCP NIC 3.0
- Others: 1 OCuLink (PCIe4.0 x4), 1 SlimSAS™ (PCIe4.0 x8 or 8 SATA 6Gb/s), 6 SlimSAS (PCIe4.0 x8)

**Storage**
- M.2: 2 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor
- SATA port: 8 via Mini-SAS HD™

**Network**
- RJ45: -

**Management**
- BMC: ASPEED AST2500: IPMI (Intelligent Platform Management Interface) 2.0
- Dedicated IPMI: 1 RJ45 via Realtek RTL8211E

**I/O**
- USB: 4 USB 3.2 Gen 1 ports: 2 rear Type A, 2 via 19-pin header, 1 USB2.0 port: 1 via vertical Type A

*Note1: SlimSAS™ (BTO) share lanes with Mini-SAS HD*
<table>
<thead>
<tr>
<th>Form Factor</th>
<th>ROMED8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ATX (12&quot; x 9.6&quot;)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Processor System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors</td>
</tr>
<tr>
<td>PCH</td>
<td>System on chip</td>
</tr>
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<thead>
<tr>
<th>Memory</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>8 DIMMs (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expansion</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe slot</td>
<td>7 PCIe 4.0 x16*</td>
</tr>
<tr>
<td>Others</td>
<td>2 OCulink (PCIe 4.0 x4)*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2</td>
<td>1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor</td>
</tr>
<tr>
<td>SATA port</td>
<td>1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor</td>
</tr>
<tr>
<td></td>
<td>8 via mini-SAS HD*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Network</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ45</td>
<td>2 RJ45 (10GbE) by Intel® X550-AT2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Management</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BMC</td>
<td>ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td>Dedicated IPMI</td>
<td>1 RJ45 via Realtek RTL8211E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I/O</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USB</td>
<td>2 USB 3.2 Gen 2 Ports: 1 rear Type C, 1 Type C header</td>
</tr>
<tr>
<td></td>
<td>4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via 19-pin header</td>
</tr>
</tbody>
</table>
# Ultra Compact EPYC 7003 Server Board with Dual 10GbE

**ROMED4ID-2T**

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>Proprietary (6.7&quot;*8.2&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor System</td>
<td><strong>CPU</strong></td>
</tr>
<tr>
<td><strong>PCH</strong></td>
<td>System on chip</td>
</tr>
<tr>
<td>Memory</td>
<td>Capacity</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCIe slot</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td>4 Slimline (PCIe4.0 x8), 2 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s)</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2</td>
</tr>
<tr>
<td><strong>SATA port</strong></td>
<td>16 from Slimline connectors</td>
</tr>
<tr>
<td>Network</td>
<td>RJ45</td>
</tr>
<tr>
<td>Management</td>
<td>BMC</td>
</tr>
<tr>
<td><strong>Dedicated IPMI</strong></td>
<td>1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td>I/O</td>
<td>USB</td>
</tr>
<tr>
<td>ROMED6U-2L2T</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Form Factor</td>
<td>µ-ATX (9.6&quot; x 9.6&quot;)</td>
</tr>
<tr>
<td>Processor System</td>
<td>CPU Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors System on chip</td>
</tr>
<tr>
<td>Memory</td>
<td>Capacity</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCIe slot</td>
</tr>
<tr>
<td></td>
<td>Others</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2</td>
</tr>
<tr>
<td></td>
<td>SATA port</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Network</td>
<td>RJ45</td>
</tr>
<tr>
<td>Management</td>
<td>BMC</td>
</tr>
<tr>
<td></td>
<td>Dedicated IPMI</td>
</tr>
<tr>
<td>I/O</td>
<td>USB</td>
</tr>
</tbody>
</table>
## New AMD EPYC™ 7000 Series Server Solutions

### EPYCD8-2T

#### EPYCD8

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ATX (12”x9.6”)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Processor Support</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Socket SP3 (LGA4094), Supports AMD EPYC™ 7000 series processor family</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chipset</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memory</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eight Channels, 8 DIMMs, DDR4 2666/2400 RDIMM, and LRDIMM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>SATA controller</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expansion Slots</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x PCIe3.0x16, 3x PCIe3.0x8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ethernet</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN Controller</td>
<td>Intel® i350</td>
<td>Intel® X550</td>
</tr>
<tr>
<td>LAN Port</td>
<td>RJ45:2+1(IPMI)</td>
<td>RJ45:2(10G)+1(IPMI)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System management</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMC Controller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPMI Dedicated LAN</td>
<td>ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikkvm, vMedia support</td>
<td>1 x Realtek RTL8211E for dedicated management LAN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>USB 3.0</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>3(2 from rear I/O, 1 via header)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M.2</th>
<th>EPYCD8</th>
<th>EPYCD8-2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>2(IM2_1: 2230/2242/2260/2280, SATA/PCIeI(X4)); M2_2:2230/2242/2260/2280/22110, SATA/PCIeI(X4))</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**1U2LW-X470**

1U General Purpose Server for Small and Medium-sized Business

**System Physical Status**
- **Form Factor**: 1U Rackmount
- **Chassis Dimension**: 394 x 482.6 x 44.4 mm (15.5” x 19” x 1.75”)
- **Support MB Size**: X470D4U(Micro-ATX, 9.6” x 9.6”)

**Front Panel**
- **Buttons**: Power On/Standby Button, ID button, System Reset Button, NMI Button
- **LEDs**: UID, LAN LED
- **I/O Ports**: 2 x USB 3.1 Ports

**Storage**
- **External**: Slim ODD x1(Optional)
- **Internal**: 2 x 3.5'' SATA HDDs or 1 x 3.5'' SATA HDD & 1 x 2.5'' SATA HDD

**System cooling**
- **Fan**: 3 x 40*28 mm PWM Easy-Swap Fans

**Power Supply**
- **Capacity**: Single PSU
- **Output Watts**: 315W
- **Efficiency**: GOLD

---

**1U4LW-X470**

1U 4-Bay General Purpose Server for Small and Medium-sized Business

**System Physical Status**
- **Form Factor**: 1U Rackmount
- **Chassis Dimension**: 533.4 x 482.6 x 44.4 mm (21” x 19” x 1.75”)
- **Support MB Size**: AMD Ryzen™ PRO/3000 and 2000 Series Desktop Processors

**CPU**
- **Support MB Size**: 4 DIMM Slots, Support Dual Channel DDR4 2666/2400/2133 non-ECC/ECC UDIMM

**System Memory**
- **Power Switch, ID Switch, System Reset, NMI Buttons**
- **Power Status, HDD, LANs, System Fail LEDs**
- **2x USB 3.0**
- **LAN Port**: RJ45: 2(1G)+1(IPMI)

**Front Panel**
- **Buttons**: Power Switch, ID Switch, SystemReset, NMI Buttons
- **LEDs**: Power Status, HDD, LANs, System Fail LEDs
- **I/O Ports**: 2x USB 3.0

**MB Tray**
- **I/O Ports**: 1 x D-Sub, 2 x USB3.1 Gen 1 Ports, 1 x serial port
- **LAN Port**: RJ45: 2(1G)+1(IPMI)

**External Drive Bay**
- **Front Side Drive Bay**: External: 4 x Hot-swap 3.5'' HDDs or 4 x 2.5'' HDDs, 1 x Slim ODD or 1 x 2.5'' HDD(Optional)
- **Internal**: 2 x 2.5'' HDDs

**Power Supply**
- **Capacity**: Single PSU
- **Output Watts**: 400W
- **Efficiency**: GOLD

**System Cooling**
- **Fan**: 5 x 40*28 mm PWM Easy-Swap Fans
## 2U12L2S-ROME/2T

### Multi-purpose Server Powered by Single EPYC 7003

<table>
<thead>
<tr>
<th><strong>General Purpose</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>CPU</strong></th>
<th><strong>Socket</strong></th>
<th>Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DIMM</strong></td>
<td><strong>Capacity</strong></td>
<td>8 DDR4 DIMM slots (1DPC), Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each; max. 3200MHz</td>
</tr>
<tr>
<td><strong>System Physical Status</strong></td>
<td><strong>Form Factor</strong></td>
<td>2U Rackmount</td>
</tr>
<tr>
<td><strong>System Physical Status</strong></td>
<td><strong>Chassis Dimension</strong></td>
<td>482.6 x 625 x 87 mm (includes ears)</td>
</tr>
<tr>
<td><strong>Front Panel</strong></td>
<td><strong>Buttons</strong></td>
<td>Power button w/LED, UID button, NMI button (left ear)</td>
</tr>
<tr>
<td><strong>Front Panel</strong></td>
<td><strong>LEDs</strong></td>
<td>LAN1 and LAN2, system fault</td>
</tr>
<tr>
<td><strong>Front Panel</strong></td>
<td><strong>USB</strong></td>
<td>1 Type-A USB3.1 Gen1 (right ear)</td>
</tr>
<tr>
<td><strong>Rear IO</strong></td>
<td>** RJ45**</td>
<td>2 RJ45 (10GbE) via Intel® X550-AT2</td>
</tr>
<tr>
<td><strong>Rear IO</strong></td>
<td><strong>USB</strong></td>
<td>2 USB3.2 Gen1 (5Gbps)</td>
</tr>
<tr>
<td><strong>Rear IO</strong></td>
<td><strong>Video</strong></td>
<td>1 DB15 (VGA) via AST2500</td>
</tr>
<tr>
<td><strong>Rear IO</strong></td>
<td><strong>Others</strong></td>
<td>1 DB9 COM port, 1 UID button w/ LED</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td><strong>Rear</strong></td>
<td>3 PCIe4.0 x16 for FHFL cards</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td><strong>Others</strong></td>
<td>1 PCIe4.0 x8 for FHHL cards</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td><strong>Others</strong></td>
<td>1 OCP2.0 Mezzanine connector A and B (PCIex16)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td><strong>External Drive Bay</strong></td>
<td>12 Hot-swappable 3.5” (SATA 6Gb/s)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td><strong>Internal Storage</strong></td>
<td>1 M-key (PCIe3.0x4/ SATA); Form factor: 2280</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td><strong>Module</strong></td>
<td>1+1, 80-PLUS Platinum, 800W CRPS</td>
</tr>
<tr>
<td><strong>System Cooling</strong></td>
<td><strong>Fan</strong></td>
<td>4 80x38 mm fans</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td><strong>ASPEED BMC AST2500</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td><strong>TPM by optional accessory (TPM2-S)</strong></td>
<td></td>
</tr>
</tbody>
</table>
## 1U10E-ROME/2T

### CPU
- Single Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors

### Memory
- 8 DIMM Slots, Supports Eight-Channel DDR4 2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)

### External Drive Bay
- 10 x 2.5" NVMe SSDs or 10xSATA3 6.0Gb/s

### Front Panel
- Buttons: Power Button, Reset Button
- LEDs: Power LED, LAN LED
- I/O Port: 1 x USB 3.1 Gen 1 Port

### Ethernet
- Interface: 10000/1000/100/10 Mbps
- LAN Controller: 2 x RJ45 10GLAN by Intel® X550
- 1 x RJ45 Dedicated IPMI LAN port

### Power Supply
- Capacity: 2(1+1)
- Output Watts: 750W, Platinum

### System Cooling
- Fan: 6 x 40 *56 mm Hot-Swap fans

### System Physical Status
- Form Factor: 1U Rackmount
- Chassis Model: 1U10E-ROME
- Chassis Dimension: 625 x 482.6 x 44.4 mm
- Support MB Size: ATX, 12” x9.6” (ROMED8QM-2T)
### 1U12XL-EPYC/2T

**1U-12 Bay High-density Web 2.0 Cloud Datacenter Storage Server**

#### System Physical Status

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>1U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis Model</td>
<td>1U12L</td>
</tr>
<tr>
<td>Chassis Dimension</td>
<td>860 x 438.5 x 43.2 mm (33.9 x 17.2 x 1.7 inches)</td>
</tr>
<tr>
<td>Support MB Size</td>
<td>ATX, 12&quot; x 9.6&quot; (EPYCD8-2T)</td>
</tr>
</tbody>
</table>

#### CPU

- **Single Socket SP3 (LGA4094)** Supports AMD EPYC™ 7002/7001 Series Processors
- 8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 RDIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)

#### External Drive Bay

- **2 HOT-Swappable Bay for 2.5" 7mm SATA HDD**
- **12 Bay multi-function Hot-Swappable Bay for 3.5" or 2.5" SATA HDD/SSD**
- **3 x Quad Ports Backplane for Drives**
- SFF-8482 connector

#### Front Panel

- **Power On/Off Button, UID Button, System Reset Button**
- **Power Status LED, LAN Activity LED, HDD Status LED**
- **NA**

#### Ethernet

- **Interface**
- 10000/1000/10/10 Mbps
- 2 x RJ45 10G LAN by Intel® X550
- 1 x RJ45 Dedicated IPMI LAN Port by RTL8211E

#### Power Supply

- **Capacity**
- 1U, Redundant
- **Output Watts**
- 700W

#### System Cooling

- **Fan**
- 6 x 40*28 mm System Fans
### 1U2G-ROME/2T

**Front IO, Short-depth for Edge Deployment**

**CPU**
- Socket: SP3 (LGA4094), supports AMD EPYC 7002 Series Processors

**DIMM**
- 8 DDR4 DIMM slots (1DPC), Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each; max. 3200MHz

**System Physical Status**
- **Form Factor**: 1U Rackmount
- **Chassis Dimension**: 438 x 650 x 43.5 mm (without ear)

**Front Panel**
- **Buttons**: UID, Power, Reset
- **LEDs**: System Fail, LAN1, LAN2

**Front IO**
- **RJ45**: 2 RJ45 [10Gbe] by Intel® X550-AT2
- **USB**: 2 USB3.1 Gen1
- **Video**: 1 DB15 (VGA) via AST2500
- **Serial**: 1 DB9 COM port

**Expansion Slots**
- **Front**: 1 PCIe4.0 x16 for FHHL cards
  1 OCP2.0 Mezzanine connector A and B (PCIex16)
- **Rear**: 2 PCIe4.0 x16 for dual-slot cards

**Storage**
- **External Drive Bay**: 2 SFF 2.5" (PCIe3.0 x4/ SATA) at rear
- **Internal Storage**: 1 M-key (PCIe3.0x4/ SATA); Form factor: 2280

**Power Supply**
- **Module**: 1+1, 80-PLUS Platinum, 1200W CRPS

**System Cooling**
- **Fan**: 6 dual-rotor 40x56 mm fans

**Management**
- **ASPEED BMC AST2500**

**Security**
- **TPM by optional accessory (TPM2-S)**

### 1U4G-ROME

**Fully Unleash the 128 PCIe4.0 Lanes from EPYC 7003**

**CPU**
- Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors

**Memory**
- 8 DDR4 DIMM slots (1DPC), Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each/ NVDIMM; max. 3200MHz

**System**
- **Form Factor**: 1U Rackmount

**Physical Status**
- **Chassis Dimension**: 438 x 880 x 43.5 mm (without ear)

**Front Panel**
- **Buttons**: UID, Power, Reset
- **LEDs**: System Fail, Power, LAN1, LAN2
- **I/O**: 1 USB 3.2 Gen1 (50bps)

**Rear IO**
- **RJ45**: 2 [10GbE] by Intel® i350-AM2
- **USB**: 2 USB3.2 Gen1 (50bps)
- **Video**: 1 DB15 (VGA) via AST2500

**Expansion Slots**
- **Front**: 3 PCIe4.0 x16 for dual slot cards*
  1 PCIe4.0 x16 for dual slot cards*
  2 PCIe4.0 x16 for low-profile cards
- **Rear**: 3 PCIe4.0 x16 for dual slot cards*
  1 PCIe4.0 x16 for dual slot cards*
  2 PCIe4.0 x16 for low-profile cards

**Storage**
- **External Drive Bay**: 8 E1.S or M.2 (PCIe4.0x4)

**Power Supply**
- **Module**: 1+1, 80-PLUS Platinum, 2000W CRPS

**System Cooling**
- **Fan**: 8 dual-rotor hot-swap 40x56 mm fans

**Management**
- **ASPEED BMC AST2500**

**Security**
- **TPM 2.0 on board**

*Do not support cards with power connector on the top edge
### 2U4G-ROME/2T

**2U Cost- and Energy-efficient GPU Server Platform**

<table>
<thead>
<tr>
<th>System Physical Status</th>
<th>Form Factor</th>
<th>Chassis Model</th>
<th>Chassis Dimension</th>
<th>Support MB Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2U Rackmount</td>
<td>2U4G-ROME/2T</td>
<td>438 x 795 x 87.5 mm (without ear)</td>
<td>ATX, 12&quot; x 9.6&quot; (ROMED8QM2T)</td>
</tr>
</tbody>
</table>

**CPU**

Single Socket SP3(LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors

**Memory**

8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)

**External Drive Bay**

Front: 4 x 2.5" SATA 6GB/s HDDs (1 x SATA3 HDD could support NVMe or SATA3 6GB/s HDDs) + 1 x NVMe

**Front Panel**

Buttons: Power Button, UID Button

LEDs: System LED, UID LED, Power LED, 2 x LAN LEDs (L1, L2 LED)

I/O Port: 2 x USB 2.0 Ports

**Ethernet**

Interface: 10000/1000/10/10 Mbps

LAN Controller: 2 x RJ45 10GLAN by Intel® X550

1 x RJ45 Dedicated IPMI LAN port

**Power Supply**

Capacity: 2(1+1)

Output Watts: 2000W, Platinum

**System Cooling**

Fan: 6 x 80*38mm System Fans

---

### 2U4G-EPYC-2T

**2U Cost- and Energy-efficient GPU Server Platform**

<table>
<thead>
<tr>
<th>System Physical Status</th>
<th>Form Factor</th>
<th>Chassis Model</th>
<th>Chassis Dimension</th>
<th>Support MB Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2U Rackmount</td>
<td>2U4G-EPYC-2T</td>
<td>438 x 795 x 87.5 mm (without ear)</td>
<td>ATX, 12&quot; x 9.6&quot;</td>
</tr>
</tbody>
</table>

**Front Control Panel**

Buttons: Power Button, UID Button

LEDs: System LED, UID LED, Power LED, 2 x LAN LEDs (L1, L2 LED)

I/O Port: 2 x USB 2.0 Ports

**MB Tray**

VGA Port: 1 x D-Sub

Serial Port: 1 x COM Port

USB 3.0 Port: 2 Ports

LAN Port: RJ45:2(10G)+1(IPMI)

UID: 1+1 Redundant

**GPGPU Support**

GPGPU Watts: Max 300W Per Card (if Use Single Width Card, Max 150W)

GPGPU Card Quantity: 4 x GPGPU/MIC Cards (Double Width) or 8 x GPU/PCIe Cards (Single Width)

**External Drive Bay**

Front Side Drive Bay: 4 x 2.5" SATA 6GB/s HDDs (1 x SATA3 HDD could support NVMe or SATA3 6GB/s HDDs) + 1 x NVMe

**Power Supply**

Capacity: 1+1 Redundant

Output Watts: 2000W, Platinum

**System Cooling**

Fan: 6 x 80*38mm System Fans
### 7U8X-ROME2/2T

**System Physical Status**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>7U Rackmount</td>
</tr>
<tr>
<td>Chassis Model</td>
<td>7U8X-ROME2</td>
</tr>
<tr>
<td>Chassis Dimension</td>
<td>782mm x 430mm x 307mm (30.8” x 17” x 12.1”)</td>
</tr>
<tr>
<td>Support MB Size</td>
<td>Proprietary, 16.5” x 13.8” (ROME2D32GM-2T)</td>
</tr>
</tbody>
</table>

**CPU**

- Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors

**System Memory**

- 16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB

**Front Panel**

- Power On Button, UID, NMI, System Reset Button
- Power LED, UID LED, HDD LED, System LED
- 2 x USB 3.0 Port, 2 x LAN Port(RJ45 10GbE), 1 x VGA Port

**Ethernet**

- Interface: 100/1000/100/10 Mbps
- LAN Controller: 2 x RJ45 10GLAN by Intel® X550
- 1 x RJ45 Dedicated IPMI LAN port

**Storage**

- 16 x NVMe SSD (AIC type)

**Power Supply**

- Capacity: 4(3+1), Redundant CRPS PSU
- Output Watts: 3000W
- Efficiency: Platinum

**System Cooling**

- Fan: 8 x 40*56 mm PWM systems fans
- 5 x 80*80 mm PWM systems fans
- 12 x 60*76 mm PWM systems fans
### 3U4X-ROME/2T

**System Physical Status**
- Form Factor: 3U Rackmount
- Chassis Model: 3U4X
- Chassis Dimension: 870 mm X 438 mm X 132.5 mm (L/W/H, w/o Front Ear)
- Support MB Size: ATX, 12”x9.6”(ROMED8-2T)

**CPU**
- Single Socket SP3 (LGA4094) Supports AMD EPYC™ 7002 Series Processors

**System Memory**
- 8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)

**Front Panel**
- Buttons: Power button, Reset button, NMI button, UID button
- LEDs: System fault LED, HDD activity LED
- I/O Port: 1 x USB3.1 Ports

**Ethernet**
- Interface: 10000/1000/100/10 Mbps
- LAN Controller: 2 x RJ45 10G LAN by Intel® X550
- 1 x RJ45 Dedicated IPMI LAN port

**External Drive Bay**
- Front Side Drive Bay: 4 x 2.5” SATA + 2 x NVMe + 4 x 3.5” SATA

**Power Supply**
- Capacity: 2 (1+1), Redundant
- Output Watts: 3000W
- Efficiency: Platinum

---

### 4U4G-EPYCD8-2T

**System Physical Status**
- Form Factor: 4U Rackmount
- Chassis Dimension: 525x 430 x 174.8mm (20.7” x 16.9” x 6.9”)
- Support MB: EPYCD8-2T

**CPU**
- Socket SP3 (LGA4094), supports AMD EPYC™ 7002/7001 Series Processors

**Memory**
- Capacity: 8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/LR-DIMM up to 3200MHz, 256GB

**Expansion Slots**
- Rear: 7 PCIe3.0 x16 single slot, supports 4 FHFL dual slot GPU cards

**Storage**
- External: 2 Hot-swap 2.5” SFF bays at rear
- Internal: 8 internal 3.5” LFF bay at front
- 2 M.2 (PCIe3.0 x4 or SATA 6Gb/s)

**Rear IO**
- RJ45: 2 10GbE via X550-AT2, 1 Dedicated IPMI
- Others: 2 USB3.2 Gen1, 1DB15 (VGA), 1 DB9 (COM)

**Front Panel**
- Buttons: Power switch, System reset
- LEDs: Power status, HDD, LAN activity LEDs
- I/O Port: 2 USB 2.0

**Power Supply**
- Capacity: 1+1 Platinum 1600W CRPS

**System Cooling**
- Fan: 3 Hot-swap 12038 PWM fans
- 2 external 8038 fans (optional)
### 4U8G-ROME2/2T

**CPU**
- Dual Socket SP3 (LGA4094)
- Supports AMD EPYC™ 7002 and 7003 Series Processors

**System Memory**
- 32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)

**Front Panel**
- Power button, Reset button, NMI button, UID button
- System fault LED, HDD activity LED
- 2x USB 3.1 Ports

**Ethernet**
- 10000/1000/100/10 Mbps
- 2x RJ45 10GLAN by Intel® X550
- 1x RJ45 Dedicated IPMI LAN port

**External Drive Bay**
- 1.2.3.5" HDD Trays (for 2.5" PCIe x4 NVMe)
- 2.2.3.5" HDD Trays (for 2.5" PCIe x4 NVMe, share with PCIe x8 slot)
- 3.8.3.5" HDD Trays (for optional SAS/SATA RAID/HBA card)
- 12 x 3.5" HDD Trays supporting 3.5" SATA or 2.5" NVMe

**Power Supply**
- 4 (3+1), Redundant
- 1600W
- Platinum

---

### 4U10G-ROME2/2T

**CPU**
- Dual Socket SP3 (LGA4094)
- Supports AMD EPYC™ 7002 and 7003 Series Processors

**System Memory**
- 32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)

**Front Panel**
- Power button, Reset button, NMI button, UID button
- System fault LED, HDD activity LED
- 2x USB 3.1 Ports

**Ethernet**
- 10000/1000/100/10 Mbps
- 2x RJ45 10GLAN by Intel® X550
- 1x RJ45 Dedicated IPMI LAN port

**External Drive Bay**
- 12 x 3.5" HDD Trays supporting 3.5" SATA or 2.5" NVMe

**Power Supply**
- 4 (3+1), Redundant
- 1600W
- Platinum

---

**System Physical Status**

<table>
<thead>
<tr>
<th>System Physical Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form Factor</strong></td>
</tr>
<tr>
<td>4U Rackmount</td>
</tr>
<tr>
<td>4U10G</td>
</tr>
<tr>
<td><strong>Chassis Model</strong></td>
</tr>
<tr>
<td>845mm<em>438mm</em>176.5mm (33.3&quot; x 17.2&quot; x 6.95&quot;)</td>
</tr>
<tr>
<td><em>(D/W/H, w/o Front Panel) with Rear FAN</em></td>
</tr>
<tr>
<td>SSI EEB 12’ x 13’ (ROME2D32GM-2T)</td>
</tr>
</tbody>
</table>

---

**CPU**
- Dual Socket SP3 (LGA4094)
- Supports AMD EPYC™ 7002 and 7003 Series Processors

**System Memory**
- 32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
2U4N-F/ROME-M3

<table>
<thead>
<tr>
<th>System Physical Status</th>
<th>Form Factor</th>
<th>2U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chassis Model</td>
<td>2UAN-F</td>
</tr>
<tr>
<td></td>
<td>Chassis Dimension</td>
<td>778 x 448 x 86mm</td>
</tr>
<tr>
<td></td>
<td>Support MB Size</td>
<td>Half-Width (20”x6.5”)(ROMED8HM3 x 4)</td>
</tr>
<tr>
<td>CPU</td>
<td>Single Socket SP3(LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors</td>
<td></td>
</tr>
<tr>
<td>System Memory Per Node</td>
<td>8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R-DIMM (Modules up to 64GB Supported), and LR-DIMM (Modules up to 256GB Supported)</td>
<td></td>
</tr>
<tr>
<td>Front Panel</td>
<td>Buttons Power On/Standby Button (Per Node) in the Front System Reset Button (Per Node) in the Front UID Button (per Node) in the Rear</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LEDs HDD Act/Err/Locate LED Power LED (Front Panel Per Node) UID LED (Front Panel Per Node)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>I/O Port 1 x USB 2.0 Port (Per Node)</td>
<td></td>
</tr>
<tr>
<td>MB Per Node</td>
<td>USB 3.1 Gen 1 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VGA 1 x Mini DisplayPort (need to bundle ASRockRack special cable for VGA)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LAN Port RJ45: 1(IPMI) LAN Ports with LED (ACT/LINK LED and SPEED LED)</td>
<td></td>
</tr>
<tr>
<td>Expansion slot</td>
<td>PCIe3.0 x16 2 Slots (Low Profile Card)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>QCP Mezzanine 3.0 1 Slot</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M 2 2 Slots (SATA/PCIe 4.0 x4, 2380/22110/30110)</td>
<td></td>
</tr>
<tr>
<td>Drive Bay</td>
<td>External 4 x 3.5” HDD/SSD per node (All SATA or 2 x NVME* + 2 x SATA)</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>Output Watts 2*(1+1) 1800W Redundant</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Efficiency Platinum</td>
<td></td>
</tr>
<tr>
<td>System Cooling Per Node</td>
<td>Fan 4 x 40*56mm Fans</td>
<td></td>
</tr>
</tbody>
</table>

![Image of HPC AMD EPYC Based Server](image-url)
<table>
<thead>
<tr>
<th>System Physical Status</th>
<th>Form Factor</th>
<th>3U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chassis Dimension</td>
<td>742.1 x444.6 x 130.35mm</td>
</tr>
<tr>
<td></td>
<td>Support MB Size</td>
<td>Half-Width, 12.7” x 4.4” (EPYC3251D4Y)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Front Panel</th>
<th>Buttons</th>
<th>Power, UID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LEDs</td>
<td>Power, UID</td>
</tr>
<tr>
<td></td>
<td>I/O Port</td>
<td>1 x HDMI port (need to bundle ASRockRack special cable for USB2x2 and Management LAN)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 x mini Display port (need to bundle ASRockRack special cable for VGA)</td>
</tr>
</tbody>
</table>

| Storage | External | 2*M.2(2280/22110, Supports PCIe 3.0(x4)/ SATA6.0Gb/s) Per Node |
|         | internal | N/A |

| System Cooling | Fan | 4 x 80*38 mm system fans |

| Power Supply | Capacity | 4(3+1) Redundant |
|             | Output Watts | 1200W |
|             | Efficiency   | Platinum |
### 1U-Open19-m3.large.x86

**High-density, Space-saving Platform with OCP 3.0**

**System**
- **Form Factor**: 1U Rackmount
- **Chassis Model**: Open19 chassis
- **Dimensions**: 901.7 mm x 212.3 mm x 41.65 mm (L/W/H, w/o ear)
- **Support MB**: Half width; 6.5” × 17” (ROMED8HM3/N19)
- **Node number**: 1

**Front Panel**
- **Buttons**: Power button

**Rear Panel**
- **USB 3.0**: 1
- **VGA**: 1

**Rear Panel**
- **4 Port SFP28 Ethernet**: 1
- **12V DC-IN Port**: 1

**External Drive Bay / Storage**
- **Front Side Drive Bay**: 4 x 2.5” SATA3 HDD/SSD or 4 x NVME

**Power Supply**
- **Type**: NA, 12V DC-IN Port

**System Fan**
- **Type**: Fan
- **4 x system fans (PF 4056 1BX)**

**Key part**
- **CPU(SoC)**: AMD 7502P 32C/64T, 2.5GHz
- **DIMM**: DDR4 3200 ECC RDIMM 32GB x 8
- **LAN Card**: 2 x 25GbE, Broadcom N225 for OCP 3.0
- **SSD**: 2 x 2.5” SATA3 SSD Intel®/uni00A0S4510 240G
- **2 x 4.0” PCIe3 NVMe SSD (MICRON 3.84TB)**

**Processor System**
- **CPU**: AMD EPYC™ 7002/7001 series processor family; AMD 7402P 24C/48T, 2.8GHz (Default)

**System Memory**
- **Capacity**: Eight-Channel DDR4 3200/2933/2666 RDIMM, LRDIMM, max. 512GB (RDIMM), 1024GB (LRDIMM); default DDR4 2666 ECC RDIMM 16GB x4

---

### 1U-Open19-c3.medium.x86

**High-density, Space-saving Platform with OCP 3.0**

**System**
- **Form Factor**: 1U Rackmount
- **Chassis Model**: Open19 chassis
- **Dimensions**: 901.7 mm x 212.3 mm x 41.65 mm (L/W/H, w/o ear)
- **Support MB**: Half width; 6.5” × 17” (ROMED8HM3/N19)
- **Node number**: 1

**Front Panel**
- **Buttons**: Power button

**Rear Panel**
- **USB 3.0**: 1
- **VGA**: 1

**Rear Panel**
- **4 Port SFP28 Ethernet**: 1
- **12V DC-IN Port**: 1

**External Drive Bay / Storage**
- **Front Side Drive Bay**: 4 x 2.5” SATA3 HDD/SSD or 4 x NVME

**Power Supply**
- **Type**: NA, 12V DC-IN Port

**System Fan**
- **Type**: Fan
- **4 x system fans (PF 4056 1BX)**

**Key part**
- **CPU(SoC)**: AMD 7402P 24C/48T, 2.8GHz
- **DIMM**: DDR4 2666 ECC RDIMM 16GB x4
- **LAN Card**: 2 x 10GbE, Intel®/uni00A0x710-DA2 for OCP 3.0
- **SSD**: 2 x 2.5” SATA3 SSD Intel®/uni00A0S4510 240G
- **2 x 2.5” SATA3 SSD Intel®/uni00A0S4510 480G**

**Processor System**
- **CPU**: AMD EPYC™ 7002/7001 series processor family; AMD 7402P 24C/48T, 2.8GHz (Default)

**System Memory**
- **Capacity**: Eight-Channel DDR4 3200/2933/2666 RDIMM, LRDIMM, max. 512GB (RDIMM), 1024GB (LRDIMM); default DDR4 2666 ECC RDIMM 16GB x4
### 1U-Open19-t3.small.x86

**Efficient Rack Density with AMD Solution**

<table>
<thead>
<tr>
<th><strong>System</strong></th>
<th><strong>Form Factor</strong></th>
<th>1U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chassis Model</strong></td>
<td></td>
<td>Open19 chassis</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
<td>901.7 mm x 212.3 mm x 41.65 mm (L/W/H, w/o ear)</td>
</tr>
<tr>
<td><strong>Support MB</strong></td>
<td></td>
<td>mini-ITX, 170.18mm(L) x 170.18mm(W) (EPYC3151D4I-NL x2; 2 Nodes)</td>
</tr>
<tr>
<td><strong>Node number</strong></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Front Panel</strong></th>
<th><strong>Buttons</strong></th>
<th>Power button (2 ;1pc/per node)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rear Panel</strong></td>
<td>4 Port SFP28 Ethernet</td>
<td>1 Open19 Standard Data Connector</td>
</tr>
<tr>
<td></td>
<td>12V DC-IN Port</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>External Drive Bay / Storage</strong></th>
<th><strong>Front Side Drive Bay</strong></th>
<th>4x 2.5” SATA3 HDD/SSD (Green: from Node1, Blue: from Node2)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Power Supply</strong></th>
<th><strong>Type</strong></th>
<th>NA, 12V DC-IN Port</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Fan</strong></td>
<td><strong>Fan</strong></td>
<td>6 x system fans (4028fan, 3pcs per node, support Cold Redundant)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Key part</strong></th>
<th><strong>CPU(SoC)</strong></th>
<th>AMD EPYC™ Embedded 3151 Processor (Per node) ; 2 pcs motherboard per brick</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>DIMM</strong></td>
<td>DDR4 2666 ECC RDIMM 16GB x2 (per node, one DIMM per channel); 4pcs per brick</td>
</tr>
<tr>
<td></td>
<td><strong>LAN Card</strong></td>
<td>Intel® X710 2x10G (per node); 2 pcs per brick</td>
</tr>
<tr>
<td></td>
<td><strong>SSD</strong></td>
<td>Intel® 2.5” SATA3 SSD 54510 240G x 2 (per node); 4pcs per brick</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Processor System</strong></th>
<th><strong>CPU</strong></th>
<th>AMD EPYC™ Embedded 3151 Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Memory</strong></td>
<td><strong>Capacity</strong></td>
<td>Dual Channel DDR4 2666 ECC/UDIMM, RDIMM, LRDIMM, max 128G ; default DDR4 2666 ECC RDIMM 16GB x2 (dual channel)</td>
</tr>
</tbody>
</table>