All Purpose Power

AMD Platform Solutions

Performance Optimized, Power-efficient and Perfect Density
### 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: M.2, SATA port

**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
  - USB 3.2 Gen 1 Port: 2 rear Type A, 2 via header, 1 type A
### X399D8A-2T

**Form Factor**
ATX (12” x 9.6”)

**Processor Support**
Single Socket LGA SP3 4094P, Supports AMD TR4 Socket Ryzen Threadripper Series Processors

**Chipset**
AMD X399

**Memory Capacity**
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))

**Storage**
- SATA Controller: 8 x SATA 6Gb/s (including 1 x M.2)
- Additional: ASMedia 1061: 2 x SATA3 6.0Gb/s

**Expansion Slots**
- 3 x PCIe 3.0 x16, 2 x PCIe 3.0 x8, 1 x PCIe 3.0 x4

**Ethernet**
- LAN Controller: 2 x RJ45 10GLAN by Intel® X550-AT2
- LAN Port: RJ45: 2(10G) + 1(IPMI)

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

**USB 3.1**
2 (1 Type A, 1 Type C from Rear I/O)

**M.2**
- 1x M-Key(2230/2242/2260/2280/22110, support PCIe3.0x4 or SATA3 6Gb/s)
- 1x M-key(2230/2242/2260/2280/22110, Support PCIe3.0x4, reserved BOM option for OCulink)
## 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 SATA 3 6.0 Gb/s (1 x SATA DOM port)
- Additional SATA Controller: N/A

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

**Ethernet**  
- LAN Controller: Intel® I210
- LAN Port: RJ45:2+1(IPMI)

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

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

**M.2**  
- 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)

## 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 SATA 3 6.0 Gb/s (1 x SATA DOM port)
- Additional SATA Controller: ASMedia 1061: 2 x SATA3 6.0Gb/s

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

**Ethernet**  
- LAN Controller: 2 x RJ45 10GLAN by Intel® X557
- LAN Port: RJ45:2+1(IPMI)

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

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

**M.2**  
- 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” x 9.6’’)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor System</td>
<td>CPU PCH AM4 PGA 1331, supports 3rd Gen AMD Ryzen™ Processors and 2nd Gen AMD Ryzen™ Processors with Radeon™ Graphics AMD X570</td>
</tr>
<tr>
<td>Memory</td>
<td>Capacity 4 DIMM slots (2DPC); supports DDR4 ECC/UDIMM up to 3200MHz, 32GB</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCIe slot 1 PCIe4.0 x16/ x8, 1 PCIe4.0 x1, 1 PCIe4.0 x8 Others -</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2 1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU] 1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [PCH] 8 SATA 6Gb/s, 1 supports SATA DOM SATA port via Oculink</td>
</tr>
<tr>
<td>Network</td>
<td>RJ45 2 RJ45 (10GbE) by Intel® X550-AT2, 2 RJ45 (1GbE) by Intel® i210</td>
</tr>
<tr>
<td>Management</td>
<td>BMC ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0 Dedicated IPMI 1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td>I/O</td>
<td>USB 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™ Processors only
- HDMI is supported by 2nd Gen AMD Ryzen™ Processors with Radeon™ Graphics only

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# X570D4I-2T

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

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

- PCIe4.0 is supported by 3rd Gen AMD Ryzen™ Processors only
### EPYC3251D4I-2T

#### Form Factor
Mini-ITX (6.7" x 6.7")

#### Processor Support
- AMD EPYC™ 3251 (8 cores, 16 threads)
- AMD EPYC™ 3101 (4 cores)

#### Memory
4 DIMM Slots, DDR4 2666/2400/2133/1866 ECC UDIMM, RDIMM

#### Storage
- **SATA Controller**: 2 x SATA3 6.0 Gb/s (1 x SATA3 6.0 Gb/s from SATA 7-pin, 1 x SATA3 6.0 Gb/s from M.2 M-key), up to 12 x SATA3 6.0 Gb/s from 3 x OCuLink (EPYC3251/EPYC3201/EPYC3151/EPYC3101 support 1 x OCuLink only)

#### M.2
- **Socket**: M-Key, 2280/22110, Support PCIe 3.0(x4) or SATA3 6.0Gb/s

#### Expansion Slots
- **PCIe**: 1 x PCIe 3.0 x 16

#### Ethernet
- **LAN Controller**: Intel® X550-AT2
- **LAN Port**: RJ45:2(1G)+1(1G)

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

#### USB 3.2 Gen 1
- **Ports**: 2(from Rear I/O)

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### EPYC3101D4I-2T

#### Processor Support
- AMD EPYC™ 3101 (4 cores)

#### Memory
4 DIMM Slots, DDR4 2666/2400/2133/1866 ECC UDIMM, RDIMM

#### Storage
- **SATA Controller**: 2 x SATA3 6.0 Gb/s (1 x SATA3 6.0 Gb/s from SATA 7-pin, 1 x SATA3 6.0 Gb/s from M.2 M-key), up to 12 x SATA3 6.0 Gb/s from 3 x OCuLink (EPYC3251/EPYC3201/EPYC3151/EPYC3101 support 1 x OCuLink only)

#### M.2
- **Socket**: M-Key, 2280/22110, Support PCIe 3.0(x4) or SATA3 6.0Gb/s

#### Expansion Slots
- **PCIe**: 1 x PCIe 3.0 x 16

#### Ethernet
- **LAN Controller**: Intel® X550-AT2
- **LAN Port**: RJ45:2(1G)+1(1G)

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

#### USB 3.2 Gen 1
- **Ports**: 2(from Rear I/O)
EPYC3451D4I2-2T
Highly Expandable Ultra Compact
High Core Count Server Board with Dual 10GbE

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>Mini-ITX (6.7” x 6.7”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor System</td>
<td>AMD EPYC™ 3451 Processor</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>4 DIMM slots (1DPC); supports DDR4 ECC UDIMM/RDIMM/LRDIMM up to 2666MHz, 32GB</td>
</tr>
<tr>
<td>Expansion PCIe slot</td>
<td>1 PCIe3.0 x16</td>
</tr>
<tr>
<td>Others</td>
<td>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)</td>
</tr>
<tr>
<td>Storage M.2</td>
<td>1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor</td>
</tr>
<tr>
<td>SATA port</td>
<td>2 SATA 7-pin*, 12 from OCulink connectors</td>
</tr>
<tr>
<td>Network RJ45</td>
<td>2 RJ45 (10GbE) by Intel® X550-AT2</td>
</tr>
<tr>
<td>Management 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>
<tr>
<td>I/O USB</td>
<td>4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header</td>
</tr>
</tbody>
</table>

* one SATA port shared with M.2 SATA interface

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EPYC3451D4U-2T2O8R
Versatile Server Board with Multi-network Ports and SAS3008 Onboard

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>micro ATX (9.6” x 9.6”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor System</td>
<td>AMD EPYC™ 3451 Processor</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>4 DIMM slots (1DPC); supports DDR4 ECC UDIMM/RDIMM up to 2666MHz, 64GB/ LRDIMM up to 2666MHz, 128GB</td>
</tr>
<tr>
<td>Expansion PCIe slot</td>
<td>1 PCIe3.0 x16, 3 PCIe3.0 x8***</td>
</tr>
<tr>
<td>Others</td>
<td>2 OCulink (PCIe3.0 x4 or 4 SATA 6Gb/s), 4 OCulink (PCIe3.0 x4)**</td>
</tr>
<tr>
<td>Storage M.2</td>
<td>1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor</td>
</tr>
<tr>
<td>SATA port</td>
<td>4 via mini-SAS HD*, 8 from OCulink connectors</td>
</tr>
<tr>
<td>SAS port</td>
<td>8 via mini-SAS HD by SAS3008</td>
</tr>
<tr>
<td>Network RJ45</td>
<td>2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (GbE) by Intel® i210</td>
</tr>
<tr>
<td>SFP+</td>
<td>2 SFP+ (10GbE) by CS4227</td>
</tr>
<tr>
<td>Management 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>
<tr>
<td>I/O USB</td>
<td>4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header</td>
</tr>
</tbody>
</table>

* 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
<table>
<thead>
<tr>
<th>ROME2D32LM3</th>
<th>Thermal Optimized Dual AMD EPYC 7002/7001 Series Processors for CPU/Memory Intensive Workloads</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form Factor</strong></td>
<td>Proprietary (19”x17”)</td>
</tr>
<tr>
<td><strong>Processor System</strong></td>
<td>CPU 1+1 Socket SP3 (LGA4094), supports AMD EPYC™ 7002/7001 Series Processors System on chip</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>Capacity 16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB</td>
</tr>
<tr>
<td><strong>Expansion</strong></td>
<td>PCIe slot 2 PCIe 4.0 x24, 1 PCIe 4.0 x16</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>M.2 1 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>RJ45 2 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>BMC ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td><strong>I/O</strong></td>
<td>USB 4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ROME2D32GM-2T</th>
<th>19 Slimline SAS PCIe 4.0 x 8 Providing Ultimate Flexibility to Any Possibility</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form Factor</strong></td>
<td>Proprietary ( 16.53” x 14.56”)</td>
</tr>
<tr>
<td><strong>Processor System</strong></td>
<td>CPU Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors System on chip</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>Capacity 16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB</td>
</tr>
<tr>
<td><strong>Expansion</strong></td>
<td>Others 4 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 15 Slimline (PCIe 4.0 x8)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>M.2 1 M-key (PCIe 4.0 x4), supports 22110/2280 form factor</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>RJ45 2 RJ45 (10GbE) by Intel® X550-AT2</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>BMC ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td><strong>I/O</strong></td>
<td>USB 8 USB3.2 Gen 1 Ports: 4 rear Type A, 4 via header</td>
</tr>
</tbody>
</table>
## ROME2D16-2T

**Mainstream Dual Socket Server Board Powered by EPYC 7003**

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

### Processor System
| CPU | PCH | System on chip | Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors |

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

### Expansion
<table>
<thead>
<tr>
<th>PCIe slot</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 PCIe x16 [CPU0], 2 PCIe x16, 1 PCIe x8 [CPU1]</td>
<td>2 Oculink (PCIe4.0 x4 or 4 SATA 6Gb/s) [CPU0,CPU1]</td>
</tr>
<tr>
<td>1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU0]*, 1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU1]</td>
<td></td>
</tr>
</tbody>
</table>

### Storage
<table>
<thead>
<tr>
<th>M.2</th>
<th>SATA port</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor [CPU0]</td>
<td>4 SATA 7-pin, 8 from Slimline connector, 8 from Ocuink connectors</td>
</tr>
<tr>
<td>1 M-key (PCIe4.0 x4), supports 22110/2280/2242 form factor [CPU0]</td>
<td></td>
</tr>
<tr>
<td>4 SATA 7-pin, 8 from Slimline connector [CPU0]</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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## ROME2D16HM3

**Highly Expandable Dual Socket EPYC 7003 Half-width Server Board**

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

### Processor System
| CPU | PCH | System on chip | Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors |

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

### Expansion
<table>
<thead>
<tr>
<th>PCIe slot</th>
<th>OCP</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 high density PCIe4.0 x24 [CPU0]</td>
<td>1 OCP NIC 3.0 [CPU0]</td>
<td></td>
</tr>
<tr>
<td>6 Slimline (PCIe4.0 x8), 2 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU1]</td>
<td>1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU0]</td>
<td></td>
</tr>
<tr>
<td>2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 and 2280/2260 formfactor [CPU0]</td>
<td>2 SATA 7-pin*, 8 from Slimline connector [CPU0]</td>
<td></td>
</tr>
<tr>
<td>2 SATA 7-pin*, 8 from Slimline connector [CPU0]</td>
<td>16 from Slimline connectors [CPU1]</td>
<td></td>
</tr>
</tbody>
</table>

### Storage
<table>
<thead>
<tr>
<th>M.2</th>
<th>SATA port</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 and 2280/2260 formfactor [CPU0]</td>
<td></td>
</tr>
<tr>
<td>2 SATA 7-pin*, 8 from Slimline connector [CPU0]</td>
<td></td>
</tr>
<tr>
<td>2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 and 2280/2260 formfactor [CPU0]</td>
<td></td>
</tr>
<tr>
<td>2 SATA 7-pin*, 8 from Slimline connector [CPU0]</td>
<td></td>
</tr>
</tbody>
</table>

### Network
| RJ45 | - |

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

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

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* Slimline from CPU0 support PCIe only while installing 2 processors

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

Versatile Server Board Delivering Flexibility for both Rear and Front I/O Expansions

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>ATX (12” x 9.6&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor System</td>
<td>CPU, PCH</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCIe slot 2, OCP 1 OCP 2.0 mezzanine connector A and B (PCIe x16), 2 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 5 Slimline (PCIe 4.0 x8)</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2 1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor, 4 via mini-SAS HD</td>
</tr>
<tr>
<td>Network RJ45 2 RJ45 (10GbE) by Intel® X550-AT2</td>
<td></td>
</tr>
<tr>
<td>Management BMC, Dedicated IPMI</td>
<td>ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0, 1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td>I/O USB</td>
<td>4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header</td>
</tr>
</tbody>
</table>

### ROMED8HM3

Half-width Single AMD EPYC 7003 Server Board with Balancing Throughput between Rear and Front I/O Expansions

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>Half-Width (6.5” x 17&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor System</td>
<td>CPU, PCH</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCIe slot 1 high density PCIe 4.0 x24, 1 high-density PCIe 4.0 x16, 1 OCP NIC 3.0, 6 Slimline (PCIe 4.0 x8)</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2 2 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor, 4 via mini-SAS HD</td>
</tr>
<tr>
<td>Network RJ45</td>
<td>-</td>
</tr>
<tr>
<td>Management BMC, Dedicated IPMI</td>
<td>ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0, 1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td>I/O USB</td>
<td>4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header</td>
</tr>
<tr>
<td></td>
<td>ROMED8-2T</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>ATX (12&quot; x 9.6&quot;)</td>
</tr>
<tr>
<td><strong>Processor System</strong></td>
<td>Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB</td>
</tr>
<tr>
<td><strong>Expansion</strong></td>
<td>7 PCIe 4.0 x16*</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td>2 OCulink (PCIe 4.0 x4)*</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor</td>
</tr>
<tr>
<td><strong>SATA port</strong></td>
<td>1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor</td>
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<tr>
<td><strong>Network</strong></td>
<td>8 via mini-SAS HD*</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>2 RJ45 (10GbE) by Intel® X710-AT2</td>
</tr>
<tr>
<td><strong>BMC</strong></td>
<td>ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td><strong>Dedicated IPMI</strong></td>
<td>1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td><strong>I/O</strong></td>
<td>2 USB 3.2 Gen 2 Ports: 1 rear Type C, 1 header</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header</td>
</tr>
<tr>
<td><strong>ROMED4ID-2T</strong></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Proprietary (6.7”*8.2”)</td>
</tr>
<tr>
<td><strong>Processor System</strong></td>
<td>CPU</td>
</tr>
<tr>
<td></td>
<td>PCH</td>
</tr>
<tr>
<td></td>
<td>Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors</td>
</tr>
<tr>
<td></td>
<td>System on chip</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>Capacity</td>
</tr>
<tr>
<td></td>
<td>4DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB</td>
</tr>
<tr>
<td><strong>Expansion</strong></td>
<td>PCIe slot</td>
</tr>
<tr>
<td></td>
<td>Others</td>
</tr>
<tr>
<td></td>
<td>1 PCIe4.0 x16</td>
</tr>
<tr>
<td></td>
<td>4 Slimline (PCIe4.0 x8), 2 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>M.2</td>
</tr>
<tr>
<td></td>
<td>SATA port</td>
</tr>
<tr>
<td></td>
<td>1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor</td>
</tr>
<tr>
<td></td>
<td>16 from Slimline connectors</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>RJ45</td>
</tr>
<tr>
<td></td>
<td>2 RJ45 (10GbE) by Intel® X550-AT2</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>BMC</td>
</tr>
<tr>
<td></td>
<td>Dedicated IPMI</td>
</tr>
<tr>
<td></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><strong>I/O</strong></td>
<td>USB</td>
</tr>
<tr>
<td></td>
<td>2 USB3.2 Gen1 ports: 2 rear Type A, USB2.0 ports: 2 via header</td>
</tr>
</tbody>
</table>
ROMED6U-2L2T Compact Multi-purpose Storage Engine Supporting max. 32 Native SATA 6Gb/s

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>mATX (9.6” x 9.6”)</td>
</tr>
<tr>
<td>Processor System</td>
<td>CPU Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors</td>
</tr>
<tr>
<td></td>
<td>PCH System on chip</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>6 DIMM Slots, supports DDR4 R-DIMM/LR-DIMM</td>
</tr>
<tr>
<td>Expansion</td>
<td>PCIe slot 4 PCIe 4.0 x16</td>
</tr>
<tr>
<td></td>
<td>2 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 1 Slimline (PCIe 4.0 x8)</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2 1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 2280 form factor</td>
</tr>
<tr>
<td></td>
<td>1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 2260 form factor [BTO]</td>
</tr>
<tr>
<td></td>
<td>SATA port 2 SATA 7-pin, 12 via mini-SAS HD</td>
</tr>
<tr>
<td>Network</td>
<td>RJ45 2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (1GbE) by Intel i210</td>
</tr>
<tr>
<td>Management</td>
<td>BMC ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0</td>
</tr>
<tr>
<td></td>
<td>Dedicated IPMI 1 RJ45 via Realtek RTL8211E</td>
</tr>
<tr>
<td>I/O</td>
<td>USB 4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header</td>
</tr>
</tbody>
</table>
## EPYCD8-2T

**New AMD EPYC™ 7000 Series Server Solutions**

**EPYCD8**

### Form Factor
- EPYCD8: ATX (12”x9.6”)
- EPYCD8-2T: N/A

### Processor Support
- EPYCD8-2T: Single Socket SP3 (LGA4094), Supports AMD EPYC™ 7000 series processor family

### Chipset
- EPYCD8-2T: N/A

### Memory
- EPYCD8: Eight Channels, 8 DIMMs, DDR4 2666/2400 RDIMM, and LRDIMM
- EPYCD8-2T: N/A

### Storage
- EPYCD8: SATA controller
- EPYCD8-2T: N/A

### Expansion Slots
- EPYCD8: 9 x SATA3 6.0 Gb/s (from 2x mini SAS HD), 1 SATA DOM
- EPYCD8-2T: 4x PCIe3.0x16, 3x PCIe3.0x8

### Ethernet
- EPYCD8: Intel® i350
- EPYCD8-2T: Intel® X550

### System management
- EPYCD8: ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with iKvm, vMedia support
- EPYCD8-2T: 1 x Realtek RTL8211E for dedicated management LAN

### USB 3.0
- EPYCD8: 3 (2 from rear I/O, 1 via header)
- EPYCD8-2T: N/A

### M.2
- EPYCD8: 2 (M2_1: 2230/2242/2260/2280, SATA/PCIe(X4); M2_2: 2230/2242/2260/2280/22110, SATA/PCIe(X4))
### System Physical Status

**Form Factor**
- 1U Rackmount

**Chassis Dimension**
- 533.4 x 492.6 x 44.4 mm (21" x 19" x 1.75")
- Micro-ATX, 9.6" x 9.6" (X470D4U)

**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

---

### 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")

### CPU

- AMD Ryzen™ PRO/3000 and 2000 Series Desktop Processors

### System Memory

- 4 DIMM Slots, Support Dual Channel DDR4
- 2666/2400/2133 non-ECC/ECC U DIMM

### Front Panel

**Buttons**
- Power Switch, ID Switch, System Reset, NMI Buttons

**LEDs**
- Power Status, HDD, LANs, System Fail LEDs

**I/O Ports**
- 2 x USB 3.0
- 2 x USB 3.1 Gen 1 Ports
- 1 x D-Sub, 1 x serial port
- RJ45: 2(1G)+1(IPMI)

### 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**

**General Purpose**

| CPU | Socket | Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors |
| DIMM | Capacity | 8 DDR4 DIMM slots (10PC), Supports DDR4 RDIMM up to 64GB each/LRDIMM up to 256GB each; max. 3200MHz |
| System Physical Status | Form Factor | 2U Rackmount |
| | Chassis Dimension | 482.6 x 625 x 87 mm (includes ears) |
| Front Panel | Buttons | Power button w/LED, UID button, NMI button (left ear) |
| | LEDs | LAN1 and LAN2, system fault |
| | USB | 1 Type-A USB3.1 Gen1 (right ear) |
| Rear IO | RJ45 | 2 RJ45 (10GbE) via Intel® X550-AT2 |
| | USB | 1 dedicated IPMI via AST2500 |
| | Video | 1 DB15 (VGA) via AST2500 |
| | Others | 1 DB9 COM port, 1 UID button w/ LED |
| Expansion Slots | Rear | 3 PCIe4.0 x16 for FHFL cards |
| | | 1 PCIe4.0 x8 for FHHL cards |
| | | 1 OCP2.0 Mezzanine connector A and B (PCIex16) |
| Storage | External Drive Bay | 12 Hot-swappable 3.5" (SATA 6Gb/s) |
| | Internal Storage | 1 M-key (PCIe3.0x4/ SATA); Form factor: 2280 |
| | | 2 SFF 2.5" drive bay |
| Power Supply | Module | 1+1, 80-PLUS Platinum, 800W CRPS |
| System Cooling | Fan | 480x38 mm fans |
| Management | ASPEED BMC AST2500 |
| Security | TPM by optional accessory (TPM2-S) |
### 1U10E-ROME/2T

#### 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)

#### 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 296GB Supported)

#### External Drive Bay
- Front: 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
### 1U12XL-EPYC/2T

**System Physical Status**
- **Form Factor**: 1U Rackmount
- **Chassis Model**: 1U12L
- **Chassis Dimension**: 860 x 438.5 x 43.2 mm (33.9 x 17.2 x 1.7 inches)
- **Support MB Size**: ATX, 12"x9.6" (EPYCD8-2T)

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

**Memory**
- 8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (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
- Dual Single Backplanes for Each Drive
- 2 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

**Ethernet**
- Interface: 10000/1000/100/10 Mbps
- 2 x RJ45 10GLAN 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

### 1U12XL-EPYC/2T2E

**System Physical Status**
- **Form Factor**: 1U Rackmount
- **Chassis Model**: 1U12L
- **Chassis Dimension**: 860 x 438.5 x 43.2 mm (33.9 x 17.2 x 1.7 inches)
- **Support MB Size**: ATX, 12"x9.6" (EPYCD8-2T)

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

**Memory**
- 8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)

**External Drive Bay**
- 2 HOT-Swappable Bay for 2.5" 7mm NVMe HDD
- Dual Single Backplanes for Each Drive
- 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

**Ethernet**
- Interface: 10000/1000/100/10 Mbps
- 2 x RJ45 10GLAN 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**: 1 SP3 (LGA4094), supports AMD EPYC™ 7002 Series Processors

#### DIMM
- **Capacity**: 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 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
- **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
- **Module**: ASPEED BMC AST2500

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

---

### 1U4G-ROME

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

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

#### Memory
- **Capacity**: 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
- **Chassis Dimension**: 438 x 880 x 43.5 mm (without ear)

#### Physical Status
- **Buttons**: UID, Power, Reset
- **LEDs**: System Fail, Power, LAN1, LAN2
- **I/O**: 1 USB 3.2 Gen1 (5Gbps)

#### Rear IO
- **RJ45**: 2 (10Gbe) by Intel® i350-AM2
- **USB**: 2 USB3.2 Gen1 (5Gbps)
- **Video**: 1 DB15 (VGA) via AST2500

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

#### Storage
- **External Drive Bay**: 8 E1.S or M.2 (PCIe4.0x4)
- **Power Supply**: 1+1, 80-PLUS Platinum, 2000W CRPS
- **System Cooling**: 8 dual-rotor hot-swap 40x56 mm fans

#### Management
- **Module**: ASPEED BMC AST2500

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

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

2U Cost- and Energy-efficient GPU Server Platform

**System Physical Status**
- **Form Factor**: 2U Rackmount
- **Chassis Model**: 2U4G-ROME/2T
- **Chassis Dimension**: 438 x 795 x 87.5 mm (without ear)
- **Support MB Size**: ATX, 12”x9.6” (ROMED8QM-2T)

**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**: 10000/1000/10/100 Mbps
- **LAN Controller**: 2 x RJ45 1G LAN by Intel® X550
- **Power Button, UID Button**: 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

2U4G-EPYC

2U Cost- and Energy-efficient GPU Server Platform

**System Physical Status**
- **Form Factor**: 2U Rackmount
- **Chassis Model**: 2U4G-EPYC
- **Chassis Dimension**: 438 x 795 x 87.5 mm (without ear)
- **Support MB Size**: ATX, 12”x9.6”

**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

**GP/GPU Support**
- **GP/GPU Watts**: Max 300W Per Card (if Use Single Width Card, Max 150W)
- **GPU Card Quantity**: 4 x GP/GPU/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

## The Most Powerful AI Training Systems

w/ NVIDIA A100 GPU

<table>
<thead>
<tr>
<th>System Physical Status</th>
<th>Form Factor</th>
<th>7U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chassis Model</td>
<td>7U8X-ROME2</td>
</tr>
<tr>
<td></td>
<td>Chassis Dimension</td>
<td>782mm x 430mm x 307mm (30.8” x 17” x 12.1”)</td>
</tr>
<tr>
<td></td>
<td>Support MB Size</td>
<td>Proprietary, 16.5” x 13.81”(ROME2D32GM-2T)</td>
</tr>
</tbody>
</table>

## CPU

Daul 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

- **Buttons**: Power On Button, UID, NMI, System Reset Button
- **LEDs**: Power LED, UID LED, HDD LED, System LED
- **I/O Ports**: 2 x USB 3.0 Port, 2 x LAN Port(RJ45 10GbE), 1 x VGA Port

## Ethernet

- **Interface**: 10000/1000/100/10 Mbps
- **LAN Controller**: 2 x RJ45 10G LAN 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

**High-density and Highly TENSOR GPU Server**

<table>
<thead>
<tr>
<th>System Physical Status</th>
<th>Form Factor</th>
<th>3U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chassis Model</td>
<td>3U4X</td>
</tr>
<tr>
<td></td>
<td>Chassis Dimension</td>
<td>870 mm x 438 mm x 132.5 mm (L/W/H, w/o Front Ear)</td>
</tr>
<tr>
<td></td>
<td>Support MB Size</td>
<td>ATX, 12&quot;x9.6&quot;(ROMED8-2T)</td>
</tr>
</tbody>
</table>

**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 D IMM (Modules up to 256GB Supported)

**Front Panel**

- Power button, Reset button, NMI button, UID button
- System fault LED, HDD activity LED

**Ethernet**

- 10000/1000/100/10 Mbps
  - 2 x RJ45 100G 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**

- 2 (1+1), Redundant
- Output Watts: 3000W
- Efficiency: Platinum

---

### 4U4G-EPYCD8-2T

**Most Powerful Single Socket Workstation by EPYC7000**

<table>
<thead>
<tr>
<th>System Physical Status</th>
<th>Form Factor</th>
<th>4U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chassis Dimension</td>
<td>525x 430 x 174.8mm (20.7&quot; x 16.9&quot; x 6.9&quot;)</td>
</tr>
<tr>
<td></td>
<td>Support MB</td>
<td>EPYCD8-2T</td>
</tr>
</tbody>
</table>

**CPU**

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

**Memory**

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

**Expansion Slots**

- 7 PCIe3.0 x16 single slot, supports 4 FHFL dual slot GPU cards

**Storage**

- 2 Hot-swap 2.5" SFF bays at rear
- 8 internal 3.5" LFF bay at front
- 2 M.2 (PCIe3.0x4 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**

- Power switch, System reset
- 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)
## High-performance and High-density GPU Server Platform

### 4U8G-ROME2/2T 4U10G-ROME2/2T

### System Physical Status

<table>
<thead>
<tr>
<th>Physical Status</th>
<th>4U8G-ROME2/2T</th>
<th>4U10G-ROME2/2T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>4U Rackmount</td>
<td>4U Rackmount</td>
</tr>
<tr>
<td>Chassis Model</td>
<td>4U8G</td>
<td>4U10G</td>
</tr>
<tr>
<td>Chassis Dimension</td>
<td>845mm<em>438mm</em>176.5mm (33.3”*17.2”*6.95”)</td>
<td>845mm<em>438mm</em>176.5mm (33.3”*17.2”*6.95”)</td>
</tr>
<tr>
<td>(D/W/H, w/o Front Panel)</td>
<td>(D/W/H, w/o Front Panel) (with Rear FAN)</td>
<td>(D/W/H, w/o Front Panel) (with Rear FAN)</td>
</tr>
<tr>
<td>SSI EEB</td>
<td>12’’x13’’ (ROME2D32GM-2T)</td>
<td>12’’x13’’ (ROME2D32GM-2T)</td>
</tr>
<tr>
<td>CPU</td>
<td>Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors</td>
<td>Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors</td>
</tr>
<tr>
<td>System Memory</td>
<td>32 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>32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)</td>
</tr>
<tr>
<td>Buttons</td>
<td>Power button, Reset button, NMI button, UID button</td>
<td>Power button, Reset button, NMI button, UID button</td>
</tr>
<tr>
<td>LEDs</td>
<td>System fault LED, HDD activity LED</td>
<td>System fault LED, HDD activity LED</td>
</tr>
<tr>
<td>I/O Port</td>
<td>2 x USB3.1 Ports</td>
<td>2 x USB3.1 Ports</td>
</tr>
<tr>
<td>Ethernet</td>
<td>10000/1000/100/10 Mbps</td>
<td>10000/1000/100/10 Mbps</td>
</tr>
<tr>
<td>Interface</td>
<td>2 x RJ45 10GLAN by Intel® X550</td>
<td>2 x RJ45 10GLAN by Intel® X550</td>
</tr>
<tr>
<td>LAN Controller</td>
<td>1 x RJ45 Dedicated IPMI LAN port</td>
<td>1 x RJ45 Dedicated IPMI LAN port</td>
</tr>
<tr>
<td>External Drive Bay</td>
<td>Front Side Drive Bay: 1.2 x 3.5” HDD Trays (for 2.5” PCIe x4 NVMe) 2 x 3.5” HDD Trays (for 2.5” PCIe x4 NVMe, share with PCIe x8 slot) 3.8 x 3.5” HDD Trays (for optional SAS/SATA RAID/HBA card)</td>
<td>Front Side Drive Bay: 12 x 3.5” HDD Trays supporting 3.5” SATA or 2.5” NVMe</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Capacity: 4 (3+1), Redundant 1600W Platinum</td>
<td>Capacity: 4 (3+1), Redundant 1600W Platinum</td>
</tr>
</tbody>
</table>

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**Note:** The images show the physical appearance of the servers, illustrating the layout and components as described in the text.
2U4N-F/ROME-M3  |  HPC AMD EPYC Based Server

**System Physical Status**
- Form Factor: 2U Rackmount
- Chassis Model: 2U4N-F
- Chassis Dimension: 778 x 448 x 86mm
- Support MB Size: Half-Width (20” x 6.5”)(ROME8HM3 x 4)

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

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

**Front Panel**
- 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
- LEDs: HDD Act/Err/Locate LED, Power LED (Front Panel Per Node), UID LED (Front Panel Per Node)
- I/O Port: 1 x USB 2.0 Port (Per Node)

**MB Per Node**
- USB 3.1 Gen 1: 2
- VGA: 1 x Mini DisplayPort (need to bundle ASRockRack special cable for VGA)
- LAN Port: 1 IPMI, LAN Ports with LED (ACT/LINK LED and SPEED LED)

**Expansion slot**
- PCIe3.0 x16: 2 Slots (Low Prole Card)
- OCP Mezzanine 3.0 M 2: 2 Slots (SATA/PCIe 4.0 x4, 2380/23110/30110)
- M.2: 2 Slots (SATA/PCIe 4.0 x4, 2380/23110/30110)

**Drive Bay**
- External 4 x 2.5” HDD/SSD per node (all SATA or 2 x NVMe* + 2 x SATA)

**Power Supply**
- Output Watts: (1+1) 1600W Redundant
- Efficiency: Platinum

**System Cooling Per Node**
- Fan: 4 x 40*56mm Fans
### 3U16N-EPYC3251

- **Form Factor**: 3U Rackmount
- **Chassis Dimension**: 742.1 x 444.6 x 130.35 mm
- **Support MB Size**: Half-Width, 12.7” x 4.4” (EPYC3251D4Y)

### Front Panel
- **Buttons**: Power, UID
- **LEDs**: Power, UID
- **I/O Port**:
  - 1 x HDMI port (need to bundle ASRockRack special cable for USB2x2 and Management LAN)
  - 1 x mini Display port (need to bundle ASRockRack special cable for VGA)

### 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**: 1200 W
- **Efficiency**: Platinum
1U-Open19-m3.large.x86

High-density, Space-saving Platform with OCP 3.0

1U-Open19-c3.medium.x86

High-density, Space-saving Platform with OCP 3.0
1U-Open19-t3.small.x86 | Efficient Rack Density with AMD Solution

**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: mini-ITX, 170.18mm(L) x 170.18mm(W) (EPYC3151D4I-NL x2; 2 Nodes)
- Node number: 2

**Front Panel**
- Buttons: Power button (2; 1pc/per node)

**Rear Panel**
- 4 Port SFP28 Ethernet
- 12V DC-IN Port
- 1 Open19 Standard Data Connector

**External Drive Bay / Storage**
- Front Side Drive Bay: 4x 2.5" SATA3 HDD/SSD (Green: from Node1, Blue: from Node2)

**Power Supply**
- Type: NA, 12V DC-IN Port
- System Fan: 6 x system fans (4028fan, 3pcs per node, support Cold Redundant)

**Key part**
- CPU(SoC): AMD EPYC™ Embedded 3151 Processor (Per node); 2 pcs motherboard per brick
- DIMM: DDR4 2666 ECC RDIMM 16GB x2 (per node, one DIMM per channel); 4pcs per brick
- LAN Card: Intel® X710 2x10G (per node); 2 pcs per brick
- SSD: Intel® 2.5" SATA3 SSD 54510 240G x 2 (per node); 4pcs per brick

**Processor System**
- CPU: AMD EPYC™ Embedded 3151 Processor

**System Memory**
- Capacity: Dual Channel DDR4 2666 ECC/UDIMM, RDIMM, LRDIMM, max 128G ; default DDR4 2666 ECC RDIMM 16GB x2 (dual channel)