



## Speed big data from the edge to insights with petabyte-capability

### Controller Server

Tsecond Contoller Server contains an AMD EPYC™ 7002 Series Processor and provides the widest BIOS compatibility with dense storage and accelerator expansion systems. This allows the highly integrated server to stand alone or form the core CPU and memory resources for a scale-out, rack level, expandable solution.

It features six PCIe 4.0 x16 half-height slots and 1 PCIe 3.0 x16 half height slot. It also provides options for 7x add-in cards or 24x U.2 or U.3 drives. The server supports up to 2TB of memory and a resource expanded BIOS for scale-out device enumeration and large memory mapped I/O used for GP-GPUs and accelerators.

### Technical Specification

#### ■ HARDWARE SPECIFICATION

<b>CPUs</b>	AMD EPYC™ 7002 Series (Rome) Processor up to 225W TDP LGA 4094 single socket SP3
<b>System Memory</b>	8x DDR4 3200/2933/2666/2400 R DIMM slots (Modules Up to 64GB Supported) LR DIMM (Modules up to 256GB Supported) 8 Memo Channels, 1.2V low profile DIMMs
<b>BIOS</b>	32 MB AMI UEFI BIOS Supports PnP, PCI 4.0, ACPI 2.0 Wake, SMBIOS 2.8 support, Instant Flash 1 TB BAR1 max size and 256 PCI bus enumeration expansion support
<b>Expansion Slots</b>	<b>EOS configuration:</b> <ul style="list-style-type: none"> <li>• 5x PCIe 4.0 x16 HHFL slots</li> <li>• 1 x PCIe 4.0 x16 HHFL slot or M.2 (2230/2242/2260/2280) + 2x miniSAS-HD + 2x Oculink by jumper</li> <li>• 1 x PCIe 3.0 x16 HHFL slot</li> </ul> <b>NVMe configuration:</b> <ul style="list-style-type: none"> <li>• 2 x PCIe 4.0 x16 HHFL slots available with 48 PCIe 3.0 lanes routed to NVMe drives</li> <li>• 1 x PCIe 4.0 x16 HHFL slot or 2x M.2 (2230/2242/2260/2280) + 2x mini-SAS-HD + Oculink by jumper</li> <li>• 1 x PCIe 3.0 x16 HHFL slot</li> </ul>
<b>Dimensions (W x D x H)</b>	17.2" (19" with rack ears) x 28" x 3.5"
<b>Weight</b>	33-48 lbs
<b>Chassis</b>	Rugged steel enclosure Liquid paint with customizable front bezel

## Technical Specification

<b>Connectivity/Ports</b>	<b>USB:</b> <ul style="list-style-type: none"> <li>• 4x USB 3.1 Gen 1 (2 from Rear I/O, 2 via Header)</li> <li>• 3x USB 3.1 Gen 2 (1 from Type C, 2 via Header)</li> </ul> <b>Ethernet:</b> <ul style="list-style-type: none"> <li>• 2x RJ45 10GBASE-T LAN from Inter® X550-AT2</li> <li>• 1 x RJ45 Dedicated IPMI LAN port from RTL8211E</li> <li>• upto 4x 100Gbe ethernet ports</li> </ul>
<b>Power Options</b>	<b>1000W 90-264VAC, 47-63Hz Input:</b> <ul style="list-style-type: none"> <li>• 1+1 Redundant 80plus Silver efficiency with Active PFC, PM Bus and Over Voltage Protection</li> <li>• 15A input current at 115VAC and 7.5A at 230VAC each module</li> <li>• 15A @ 115VAC and 30A @ 230VAC max inrush current each module</li> </ul> EPS 12V Output type with 22A at +5V, 83A at +12V, 0.5A at -12V, 22A at +3.3V and 3A at +5V Standby
<b>Form Factor</b>	2U Rack Mountable
<b>Cooling</b>	4x 80mm x 38mm PWM hot-swap Cooling fans

### ■ ENVIRONMENTAL SPECIFICATION

#### Operating

- Temperature: 5°C to 35°C
- Humidity: 5% to 90% non-condensing RH, max dew point 21 0C, max rate of change 50 C/hr
- Altitude: 0-3,000 feet above sea Level

#### Non-Operating (Storage)

- Temperature: -20°C to 60°
- Humidity: 5% to 90% non-condensing RH, max dew point 27 0 C, max rate of Change 50 C/hr

### ■ TESTED TO CONFIRM STANDARDS

- FCC- Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- CE Mark (ENS55022 Class A, EN55024, EN61000-3-2, EN61000-3-3)
- CISPR 22, Class A

### ■ DESIGNED TO CONFIRM STANDARDS

- NOM-019
- Argentina IEC60950-1
- Japan VCCI, Class A
- Australia/New Zealand AS/NZS CISPR 22, Class A
- Taiwan BSMI CNS13438, Class A; CNS14336-1
- Korea KN22, Class A; KN24
- Russia/GOST ME01, IEC-60950-1, GOST R 51318.22, GOST R 51318.24, GOST R 51317.3.2
- COST R 51317.3.3
- TUV-GS (EN60950-1 /IEC60950-1, EK-1TB2000)
- RoHS 6
- WEEE