TEC300-AV

Ampere® Altra® Q64-22 Rugged Server

- **Ampere® Altra® Q64-22 SoC, 64 cores, 2.2 GHz**
- **RAM DDR4-3200 MT/s 512GB**
- **NVIDIA RTX™ 4000 SFF Ada**
- **1x2.5” NVMe U.2 SSD**
- **1 x M.2 2280 NVMe SSD**
- **2x10G ,1x1G ,4xUSB3.0, 1xVGA, 1x IPMI**
- **4 x PCI-e 4.0 x16 PCI-e slot -Altra® Max; 2 x PCI-e 4.0 x16, 2 x PCI-e 4.0 x8 PCI-e slot -Altra®**
- **DC-IN 18V~36V**

Specifications

System

CPU	Ampere® Altra® Q64-22 SoC, 64 cores, 2.2 GHz
Memory type	Eight DDR4 288-pin DIMM Slots (1DPC); RDIMM up to 256GB each, max. 3200MHz; LRDIMM up to 256GB each, max. 3200MHz

Display

GPU	NVIDIA RTX™ 4000 SFF Ada

Storage

SSD	1 x 2.5” NVMe U.2 SSD
	1 x M.2 2280 NVMe SSD

Ethernet

Ethernet	2 x 10 Gigabit Ethernet with RJ45
	1 x 1 Gigabit Ethernet with RJ45

Riser

Altra MAX	4 x PCI-e 4.0 x16 PCI-e slot
Altra	2 x PCI-e 4.0 x16, 2 x PCI-e 4.0 x8 PCI-e slot

Front I/O

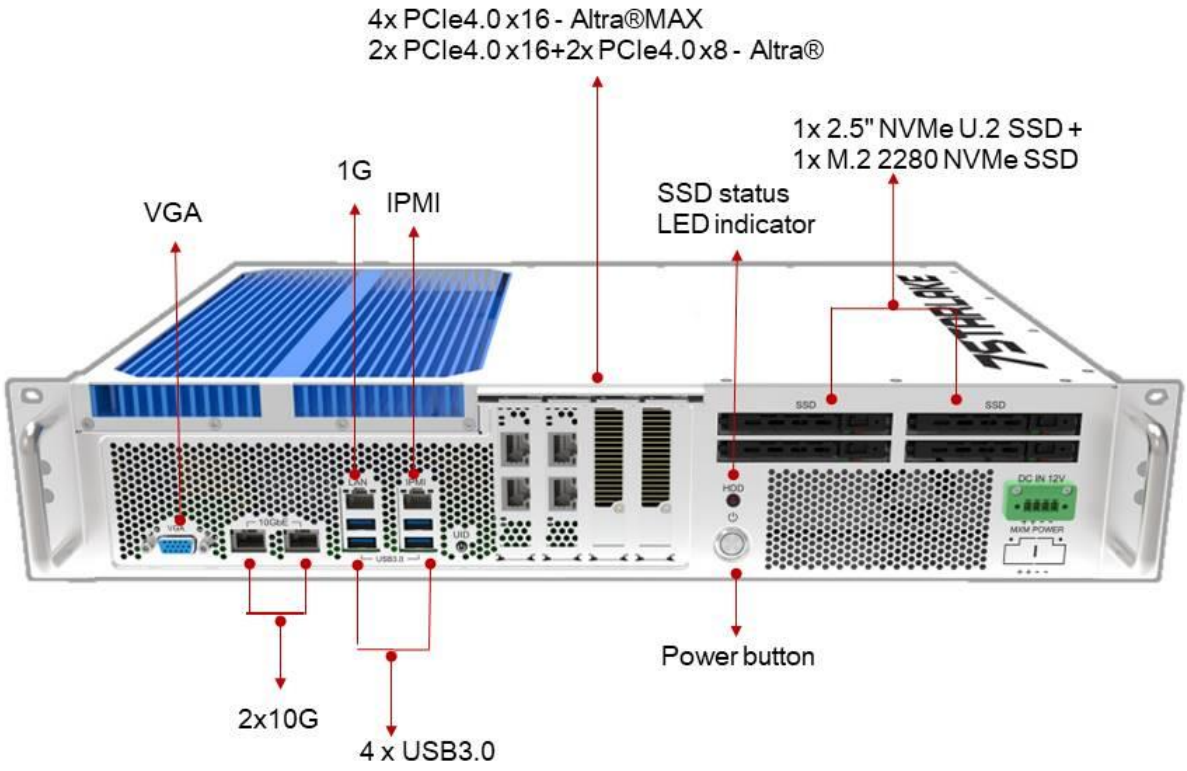
VGA	1 x DB15
10G	1 x RJ45
10G	1 x RJ45
1G	1 x RJ45
USB	4 x USB 3.2 Gen 1
IPMI	1 x RJ45
Power Button	1 x Power Button with LED backlight

OS support list

OS	Linux RedHat ,Ubuntu
Power Requirement	24V or 28V DC-IN (18V-36V)
Dimension	440mm x 440mm x 132mm (W x D x H)
Approximate weight	15 KG
Operating Temp.	0˚C to 60°C

Storage Temp.	-40°C to 85°C
Relative Humidity	5% to 95%, non-condensing
Environmental	
MIL-STD-810 Test	Method 500.5, Procedures I and II (Altitude, Operation): 12,192M, (40,000 ft) for the initial cabin altitude (18.8Kpa or 2.73 Psia) Method 500.5, Procedures III and IV (Altitude, Non-Operation): 15,240, (50,000 ft) for the initial cabin altitude (14.9Kpa or 2.16 Psia) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock) Method 507.5, Procedure II (Temperature & Humidity) Method 509.7 Salt Spray (50±5)g/L Method 514.6, Vibration Category 24/Non-Operating (Category 20 & 24,Vibration) Method 514.6, Vibration Category 20/Operating (Category 20 & 24,Vibration) Method 516.6, Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6, Shock-Procedure I Operating (Mechanical Shock)
Reliability	Conduction Cooling. Designed & Manufactured using ISO 9001 Certified Quality Program.

Appearance


4x PCIe4.0 x16 - Altra®MAX
2x PCIe4.0 x16+2x PCIe4.0 x8 - Altra®
1x 2.5" NVMe U.2 SSD +
1x M.2 2280 NVMe SSD
1G
IPMI
VGA
SSD status
LED indicator
Power button
2x10G
4 x USB3.0