



AA320

**AMPERE® ALTRA® 32 CORES
NVIDIA QUADRO MXM A4500 GPU SERVER**



- Ampere® Altra®Q32-17, 32 cores, 1.7 GHz, Option Ampere Altra Q64 and Ampere Altra Max M128
- RAM DDR4-3200 MT/s up to 1.5 TB
- RTX MXM A4500 GPU (5888 CUDA)
- 2x2.5" SATA SSD
- 2x10G ,2xUSB3.0, 1xVGA, 4xCOM
- MIL-STD-461/1275, DC-IN 18V~36V

Special Request:

- Frame Grabber: 4CH HD-SDI
- NIC: 2x 100GbE SFP+
- H/W Secure Erase AES



Specifications

System

CPU	Ampere® Altra® Q32-17, 32 cores, 1.7 GHz, 45 W TDP Option Ampere Altra Q64 and Ampere Altra Max M128
Memory type	Six DIMM sockets with individual memory channels Up to 1.5TB (6x 256 GB) DDR4 RDIMM memory, up to 3200 MT/s

GPU

Graphics Card	RTX MXM A4500 (5888 CUDA Cores)
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Storage

SSD	2 x 2.5" SATA SSD
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Ethernet

Ethernet	2 x 10 Gigabit Ethernet with SFP+ 2 x 1 Gigabit Ethernet with RJ45
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I/O

USB	2 x USB 3.0
COM	4 x RS232/RS422/RS485

Side I/O (D38999)

X1, X2	2 x10 GbE SFP+
X3	4 x COM (RS-232/422/485)
X4, X5	2 x USB3.0
X6, X7	2 x 1 GbE LAN
X8	1 x DC-IN
Power Button	1 x Power Button with LED backlight
Reset Button	1 x Reset Button

OS support list

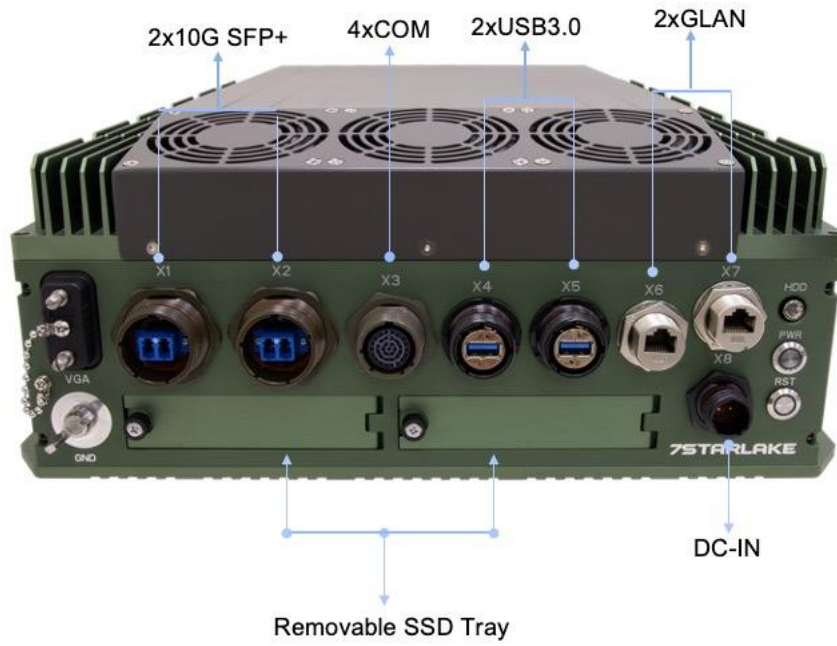
OS	Linux RedHat ,Ubuntu
Power Requirement	28V DC-IN (18V-36V)
Dimension	422mm x 330mm x 142mm (DxWxH)
Weight	10 KG
Operating Temp.	0°C to 60°C
Storage Temp.	-40°C to 85°C

Relative Humidity	5% to 95%, non-condensing
Environmental	
MIL-STD-810 Test	<p>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)</p> <p>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)</p> <p>Method 501.5, Procedure I (Storage/High Temperature)</p> <p>Method 501.5, Procedure II (Operation/High Temperature)</p> <p>Method 502.5, Procedure I (Storage/Low Temperature)</p> <p>Method 502.5, Procedure II (Operation/Low Temperature)</p> <p>Method 503.5, Procedure I (Temperature shock)</p> <p>Method 507.5, Procedure II (Temperature & Humidity)</p> <p>Method 509.7 Salt Spray (50±5)g/L</p> <p>Method 514.6, Vibration Category 24/Non-Operating (Category 20 & 24,Vibration)</p> <p>Method 514.6, Vibration Category 20/Operating (Category 20 & 24,Vibration)</p> <p>Method 516.6, Shock-Procedure V Non-Operating (Mechanical Shock)</p> <p>Method 516.6, Shock-Procedure I Operating (Mechanical Shock)</p>
Reliability	<p>Conduction Cooling.</p> <p>Designed & Manufactured using ISO 9001 Certified Quality Program.</p>
EMC	<p>EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV</p> <p>EN 61000-4-3: 10V/m</p> <p>EN 61000-4-4: Signal and DC-Net: 1 kV</p> <p>EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV</p>
MIL-STD-461	<p>CE102 basic curve, 10kHz - 30 MHz</p> <p>RE102-4, (1.5 MHz) -30 MHz - 5 GHz</p> <p>RS103, 200 MHz - 3.2 GHz, 50 V/m equal for all frequencies</p>
MIL-STD-1275	<p>Steady State – 20V~33V,</p> <p>Surge Low – 18V/500ms,</p> <p>Surge High – 100V/500ms</p> <p>Emitted spikes</p> <p>Injected Voltage surges</p> <p>Emitted voltage surges</p> <p>Voltage ripple (2V)</p> <p>Voltage spikes</p> <p>Starting Operation</p> <p>Reverse polarity</p>

Ordering Information

	AA320-A1	AA320-A2
CPU	Q32-17	
GPU	MXM RTX4500	
Frame Grabber	N/A	4CH HD-SDI
RAM	Up to DDR4-128GB	
Storage	2x 2.5" SATA SSD	
Secure Erase AES	N/A	Support
COM	4xRS232/RS422/RS485	
LAN	2x GLAN	
SFP+ LAN	2x10GbE	
Power	DC 18V~36V	

Appearance



Dimension

