



LAND



SEA



AIR



AV400

AI & LEVEL 5 AUTONOMY
RUGGED AMPERE GPU SERVER



- ◆ AI & Level 5 Autonomy Rugged Ampere GPU Server
- ◆ Ampere® Altra® Q64-22 (64 Cores 2.2Ghz 69W)
- ◆ Nvidia RTX A4000 SFF ADA Generation 20GB GDDR6
320GB/s 6144 CUDA® cores
- ◆ 128GB DDR4-3200 RDIMM ECC
- ◆ 2 x 2TB SATAIII SSD removable (Data)
- ◆ 1x 256GB M.2 NVMe (OS)
- ◆ I/O: 4xDP, 1xVGA, 4xUSB3.0, 4xCAN FD, 1xIPMI, 2x10G ,
1x1G
- ◆ TPM 2.0 Support
- ◆ DC 24V (500W)

Specifications

SYSTEM

Processor	Ampere® Altra® Q64-22, 64 cores, 2.2 GHz
Memory type	128GB DDR4-3200 RDIMM ECC
Graphic	Nvidia RTX A4000 SFF ADA Generation 6144 CUDA cores 20GB GDDR6 320MB/s
TPM	Chipset: Infineon, Type: TPM 2.0
IPMI	ASPEED AST2500 IPMI 2.0
BIOS	AMI UEFI BIOS
USB	4 USB3.0 ports
CAN FD	4 CAN channels (ISO 11898-2) Complies with CAN specification 2.0 A/B and FD
Ethernet	2 x 10G Ethernet Ports 1 x 1G Ethernet Ports 1 x RJ45 Dedicated IPMI
Power Type	24V DC IN 500W
Storage	2 x 2.5" 2TB SATAIII Swappable SSD Tray (Data) 1 x 256GB M.2 NVMe (OS)
Operating Temperature	-20°C to +50°C
Dimension	386mm(W) x 450mm(D)x133mm(H)

FRONT I/O

Power Button	1
SSD LED indicator	1
Swappable SSD Tray	2

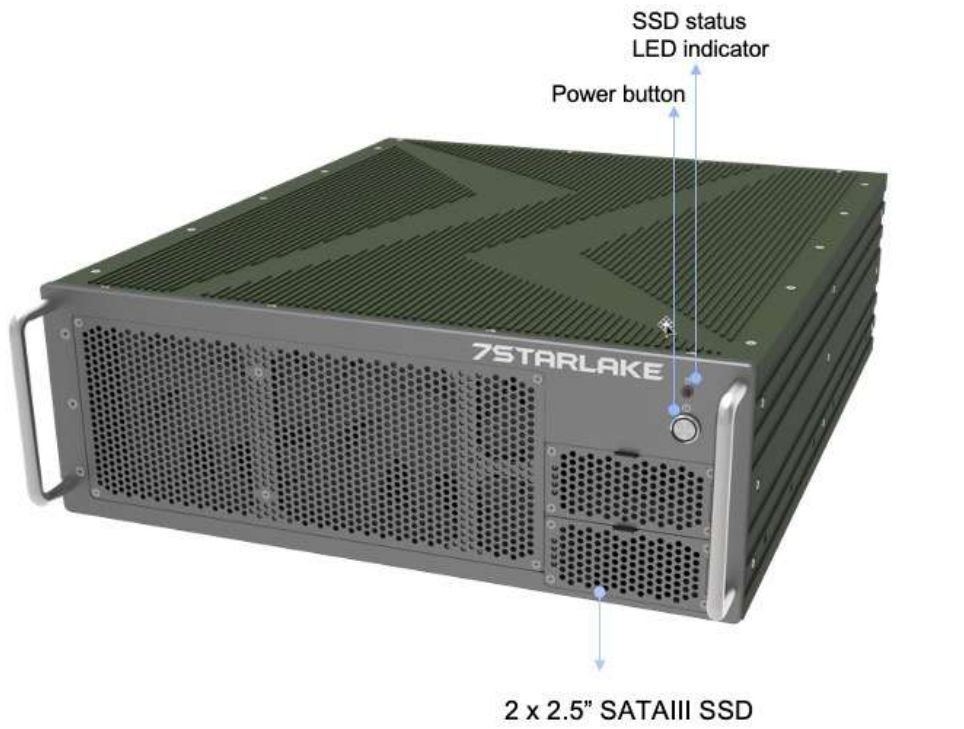
REAR I/O

IPMI LAN	1
1G LAN	1
10G LAN	2
VGA	1
USB 3.0	4
DC-IN	1
DP	4
CAN FD	4

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) Method 501.5, Procedure II (Operation/High Temperature)</p> <p>Method 502.5, Procedure I (Storage/Low Temperature) 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) Method 514.6, Vibration Category 20/Operating (Category 20 & 24,Vibration)</p> <p>Method 516.6, Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6, Shock-Procedure I Operating (Mechanical Shock)</p>
Reliability	<p>No Moving Parts; Passive Cooling.</p> <p>Designed & Manufactured using ISO 9001 Certified Quality Program.</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> <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> <p>CE and FCC</p>
MIL-STD-1275	<p>Steady State –20V~33V, Surge Low – 18V/500ms, Surge High – 100V/500ms</p> <p>Emitted spikes Injected Voltage surges Emitted voltage surges Voltage ripple (2V) Voltage spikes Starting Operation Reverse polarity</p>
Operating Temp	-20°C to +50°C
Storage Temp.	-40°C to +70°C
Relative Humidity	5% to 95%, non-condensing.

Appearance



Dimension

