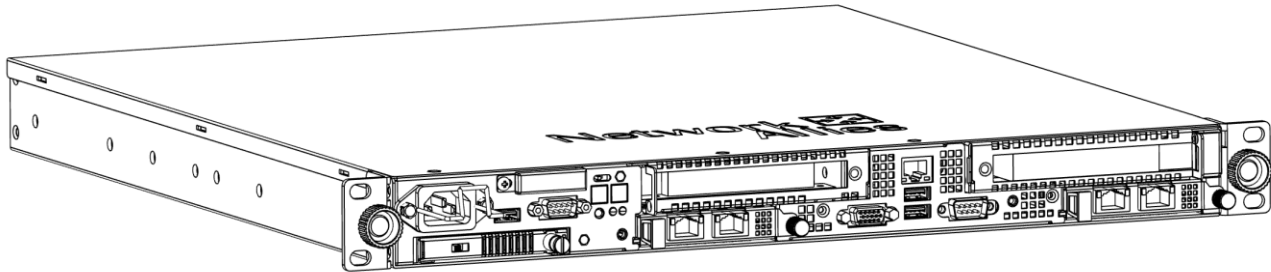


Ruggedized 1U Front I/O – 3rd Gen Scalable CPUs



The **Network Allies Hybrid Tactical (HT) 1U Front I/O Server** is housed in a modular steel chassis supporting multiple 2.5" Hot Swap Bay configurations. It features a 500-Watt cold swap power supply and is designed to support the performance and features of dual **3rd Generation Intel® Xeon® Scalable Processors (Ice Lake)** and up to 2 PCIe cards. It also supports (2x) OCP 3.0 form factor modules for extensive I/O options. This is a great solution for your high-performance computing needs.

Features:

- 1U Chassis – Short Depth (17") – Front I/O
- 2.5" SATA/SAS/NVMe Hot Swap Bays
- (2x) OCP 3.0 Sleds and (2x) PCIe 4.0 x16 Slots
- Dual 3rd Generation Xeon Processors
- 500-Watt Cold Swap Power Supply

Suggested Markets:

- ➔ Military
- ➔ High-Performance Computing
- ➔ Digital Security / Surveillance

Environmental & Regulatory Credentials – Enhanced SKU may be required

➤ MIL-STD-810G Operational and Non-Op Temperature	➤ MIL-STD-1474D Requirement 5 Airborne Noise
➤ MIL-STD-810G Humidity	➤ MIL-STD-740-2 (85dB limit) Structure Borne Noise
➤ MIL-STD-1399 Section 300B Electrical Power, AC	➤ Sinusoidal Vibration (Tailored Shipboard Limits)
➤ MIL-STD-461 CE102, CE Part 15 Class A, and CE Mark (EMI)	➤ Medium-weight Hammer Shock Test

Network Allies is a global leader in providing application-specific computing solutions. We offer a full range of world-class hardware platforms, both off the shelf and custom built. Our value-add services include design, turnkey manufacturing, logistics, and support which allow our customers to focus on their core competencies and meet product scheduling deadlines.

Specifications

CPU	3rd Generation Intel® Xeon® Scalable Processors (Ice Lake-DP) Processors. Dual Socket CPU TDP support Up to 205W TDP, 3 UPI up to 11.2 GT/s. MIL-STD tested to 100W TDP	
Memory	Memory Capacity Up to 8 channels ECC RDIMM/LRDIMM, DDR4-3200MHz; in 16 DIMM slots Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only) Error Detection- Corrects single-bit errors, detects double-bit errors (using ECC memory)	
Onboard Devices	Chipset Intel RAID supported - 0, 1 ,5, 10 IPMI - ASPEED AST2600 Graphics - Aspeed AST2600 BMC	
Input/Output	LAN onboard – 1x RJ45 Gigabit Ethernet LAN port-IPMI LAN via OCP – multiple 1Gb, 10Gb, 25Gb, 100Gb, 200Gb – Copper and Fiber options USB – 3x USB 3.0 ports Video Output – 1x VGA port 1x TPM Header Serial Port - 2x RS232	
Expansion Slots	Riser Card Support 2x PCIe 4.0 x16 – Full Height 2x OCP 3.0 supported	
Dimensions and Weight	1U Front I/O Height: 1.75” Width: 17” Depth: 18” Base Weight: +/-19lbs	
Power Supply	500W – Cold Swap AC Input: 90-264V; ~ 7A-3A; 47-63Hz DC Output: +3.3V +5V +12V1 -12V +5Vsb 18A 18A 40A 0.5A 3A 80 Plus Gold I2c/SMBbus integrated	
Drive Bays	SATA/SAS/NVMe Hot-swap drive bays	
System Cooling	Variable Speed Fans with RPM control	
RoHS Compliant	Yes	
Environmental Spec.	Operating Temp: 0°C - 50°C (32°F - 122°F) Non-Op Temp: -40°C - 70°C (-40°F - 158°F)	Op Relative Humidity: 8% - 90% (non-condensing) Non-Op Relative Humidity: 5% - 95% (non-condensing)