



The **Network Allies Hybrid Tactical (HT) 1U Front I/O Server** is housed in a modular steel chassis supporting (1) 2.5” SATA/SAS/NVME Hot Swap Bay. 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 Qty. 2 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 (18”) – Front I/O
(1) 2.5” SATA/SAS/NVMe Hot Swap Bay
(2x) OCP 3.0 Sleds and (2x) PCIe 4.0 x16 Slots
Dual 3 rd Generation Xeon Processors
500-Watt Cold Swap Power Supply

Suggested Markets:

- ➔ **Military**
- ➔ **HPC**
- ➔ **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 the solution to all your system integration needs. We offer a full range of world-class hardware platforms, both off the shelf and custom-built. Our team takes care of the design, manufacturing, integration, logistics, and support so that our customers can focus on their core competencies and reduce their total cost of ownership.

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 AST2500 Graphics - Aspeed AST2500 BMC
Input/Output	LAN onboard 1 RJ45 Gigabit Ethernet LAN port-IPMI LAN via OCP – multiple 1Gb,10Gb,25Gb – Copper and Fiber options USB 3 USB 3.0 ports Video Output 1 VGA port 1 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	1UF 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	1x 2.5" SATA/SAS Hot-swap drive bay – Optional 2 nd bay available
System Cooling	4x Variable Speed Fans with RPM control
RoHS Compliant	Yes
Environmental Spec.	Operating Temp: 0°C - 50°C (32°F - 122°F) Op Relative Humidity: 8% - 90% (non-condensing) Non-Op Temp: -40°C - 70°C (-40°F - 158°F) Non-Op Relative Humidity: 5% - 95% (non-condensing)