HORUS200-X1

1U Short Depth Ruggedized Shipboard Server with Xeon®D-1749NT Processor (10C) , 128GB DDR4 ECC RDIMM, Hardware Secure Erase (AES)

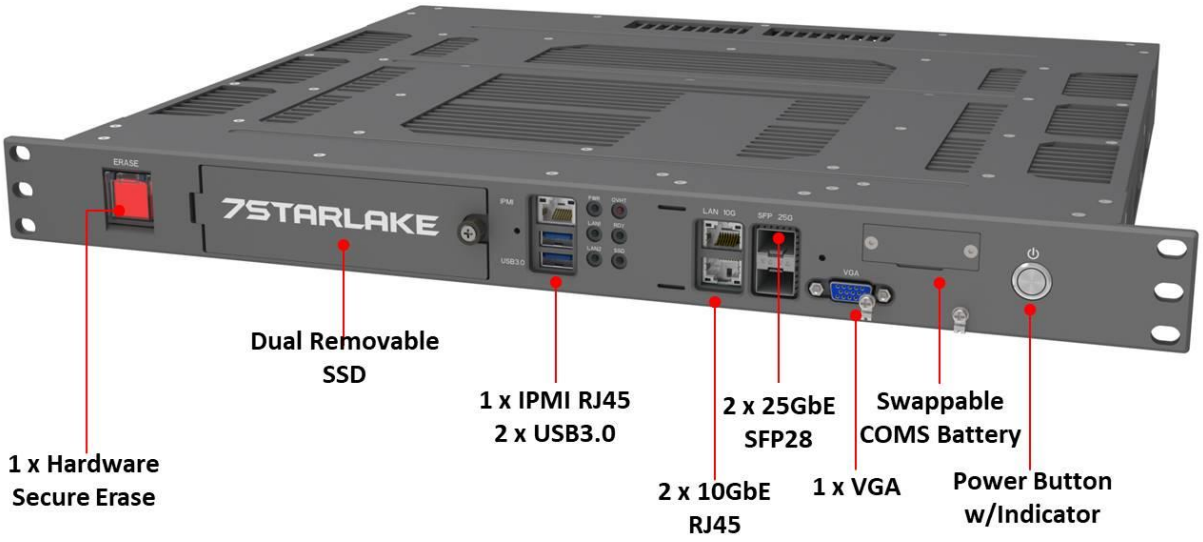
MIL-STD 461/810

intel. Xeon D Ice Lake

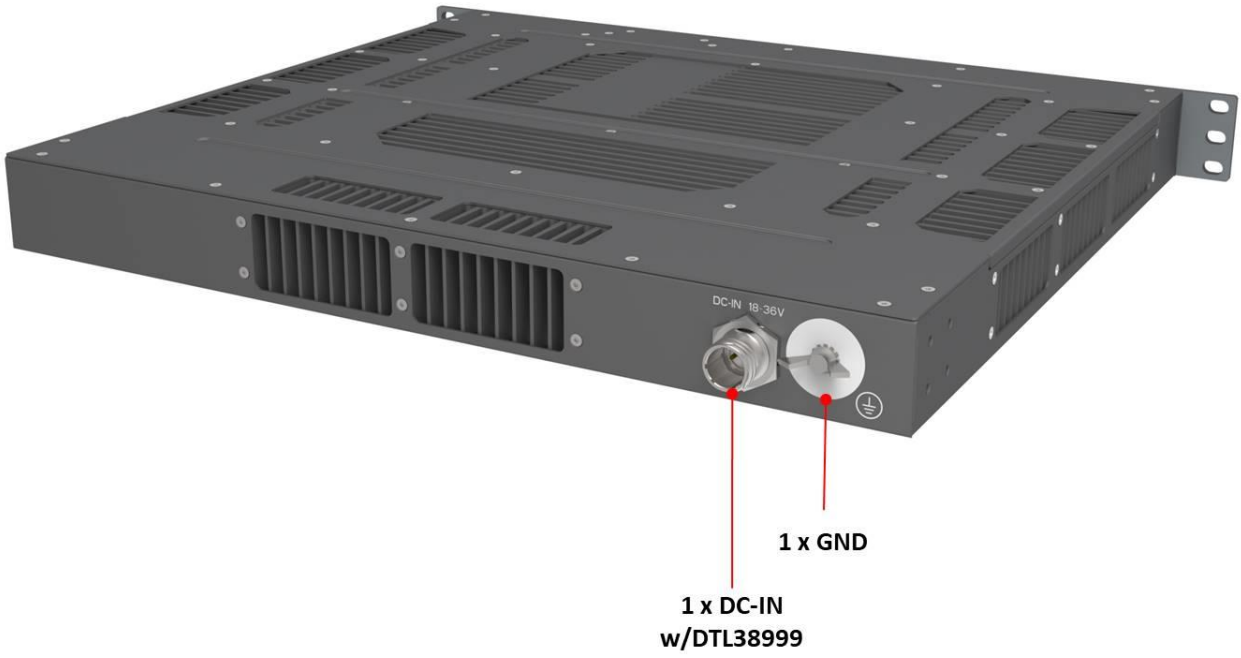
- 1U 380 mm Short Depth Fanless Rugged Server
- MIL-STD 810 , MIL-STD 461
- Intel® Xeon® D-1736NT (8xC) / D-1749NT(10xC)
- Up to 128GB Registered ECC RDIMM DDR4-2666MHz
- 2 x 25G SFP28, 2 x 10G RJ45, 1x IPMI
- 1x VGA , 2 x USB 3.0, 1 x GND
- Hardware Secure Erase (AES Key)
- Windows 10/11/Server, Linux, VMware Compatible
- 18~36V DC MIL-461 EMI FILTER Power Supply
- Extreme Temperature -20°C to +60°C

Appearance

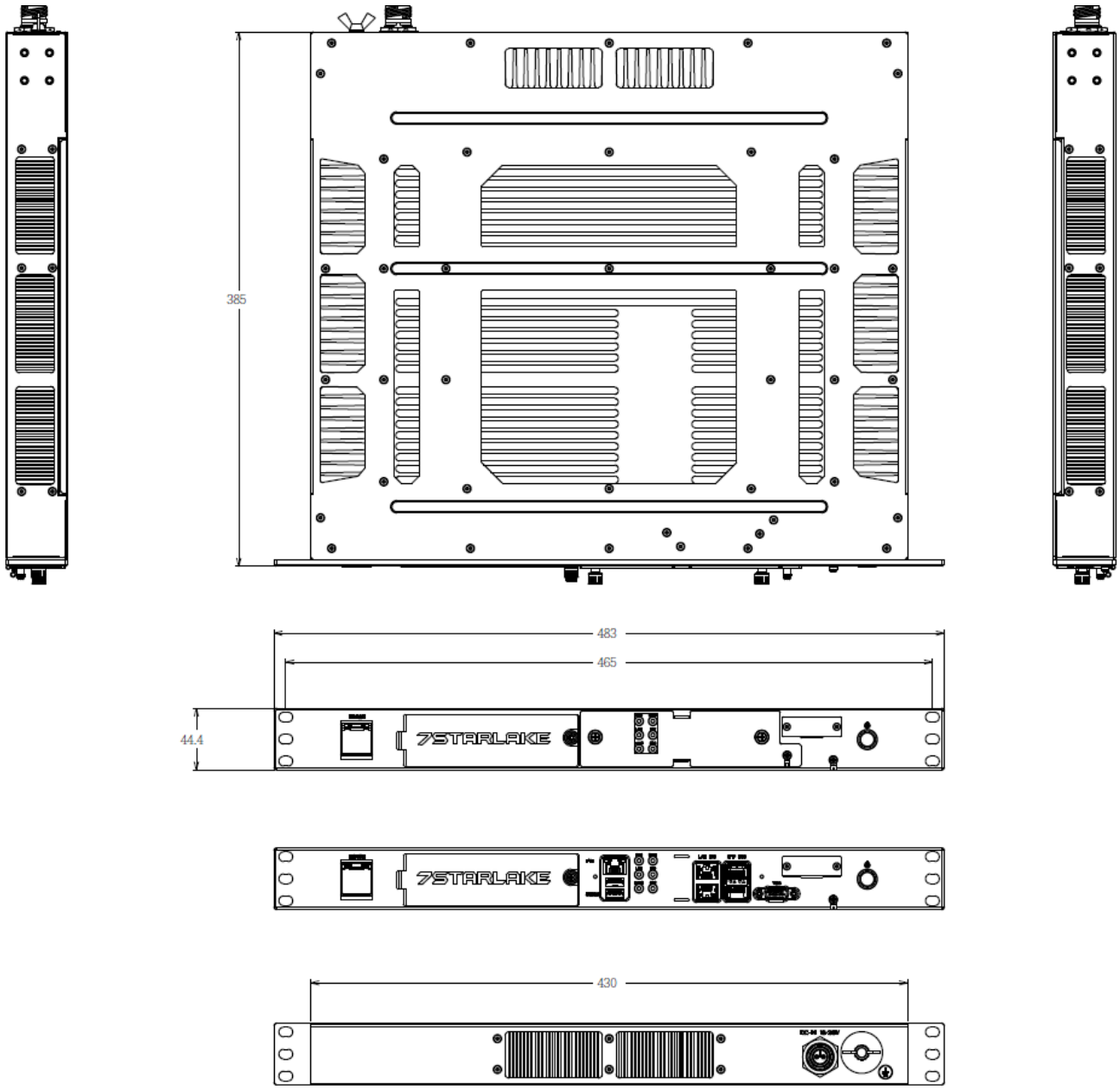
Front I/O



Rear I/O



Dimension



Specifications

System

High Performance Processor	Intel® Xeon® D-1736NT (2.7GHz, 8 Cores, 16 Threads, 15MB Cache) Intel® Xeon® D-1749NT (3.0GHz, 10 Cores, 20 Threads, 15MB Cache)
Memory type	Up to 128GB ECC RDIMM, DDR4-2666MT/s
Chipset	SoC, integrated with CPU
IPMI	ASPEED AST2600 BMC
Expansion Slot	1 x PCIe x16 (HHHL)

Storage

SDD	2 x 2.5" Swappable SATAIII SSD

Ethernet

Ethernet	2 x Intel® SoC 25G SFP28 2 x Intel® X550-AT2 10G RJ45

Front I/O

Button	1 x Secure Erase Button (SSD2 support AES Secure Erase) 1 x Power Switch with Dedicated LED
USB	2 x USB3.0
Ethernet	2 x 25GbE SFP28 2 x 10GbE RJ45 1 x IPMI
Display	1 x VGA
Dedicated LED	2 x SDD LED 4 x Dual Color LED for 8bit GPIO (Reserved)
SSD/HDD Tray	1 x Dual 2.5" SSD Easy Swap Tray
CMOS Battery Tray	1 x Removable CR2032 CMOS Battery Tray

Rear I/O

DC-IN	1 x DC-IN w/DTL38999
GND	1 x GND

Power Requirement

Power Input	MIL-STD-461, DC-IN 18~36V

Operating System

Operating System	Windows 10 64bit Enterprise Windows 10 64bit Pro Workstations Windows 10 IoT 64bit Enterprise Windows 11 64bit Enterprise Windows 11 64bit Pro Workstations Windows 11 IoT 64bit Enterprise Windows Server 2019 64bit Windows Server 2022 64bit RHEL 8.3 64bit RHEL 8.4 64bit CentOS 8.3 64bit CentOS 8.4 64bit Oracle 8.3 64bit Oracle 8.4 64bit SLES 12 SP5 64bit SLES 15 SP3 64bit Ubuntu 20.04.3 64bit Server Ubuntu 21.10 64bit Server FreeBSD 12.1 VMWare ESXi 7.0u3 x64
PHYSICAL & ENVIRONMENT	
Dimension (W x D x H)	430 x 385 x 44.4 mm
Operating Temperature	-20 to 60°C
Storage Temperature	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing
Green Product	RoHS Design to meet
Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program
MIL-STD-810	MILS-STD-810 Design to meet : Method 501, Operational Temperature, high / Procedure II: +50°C, two-hour dwell, four cycles Method 501, Storage Temperature, high / Procedure I: +70°C, two-hour dwell, four cycles Method 502, Operational Temperature, low / Procedure II: -20°C, two-hour dwell, four cycles Method 502, Storage Temperature, low / Procedure I: -40°C, two-hour dwell, four cycles Method 514, Vibration / Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514, Vibration / Category 20/Operating (Category 20 & 24, Vibration) Method 516, Shock / Procedure V Non-Operating (Mechanical Shock) Method 516, Shock / Procedure I Operating (Mechanical Shock)
EMC	MIL-STD-461 Design to meet :

CE102-Conducted emissions, power leads, 10KHz to 10MHz
RE102-Radiated emissions, electric filed, 30MHz to 5GHz
RS103-Radiated susceptibility, electric filed, 80MHz to 3GHz
EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV
EN 61000-4-3: 10V/m
EN 61000-4-4: Signal and DC-Net: 1 kV
EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV
EN 55022, Class A
CE and FCC

Ordering Information

HORUS200-X1-8C

1U Short Depth Ruggedized Shipboard Server with Intel® Xeon® D-1736NT(8C) (TDP : 67W) Processor, Up to 128GB ECC RDIMM, DDR4-2666MT/s, 1 x IPMI, 4 x Ethernet, 1 x VGA, 2 x USB, 2 x Removable SSD, 1 x Removable CMOS Battery, Secure Erase Button,18~36V DC-IN w/DTL38999, Operating Temp. -20~60°C

HORUS200-X1-10C

1U Short Depth Ruggedized Shipboard Server with Intel® Xeon® D-1749NT(10C) (TDP : 90W) Processor, Up to 128GB ECC RDIMM, DDR4-2666MT/s, 1 x IPMI, 4 x Ethernet, 1 x VGA, 2 x USB, 2 x Removable SSD, 1 x Removable CMOS Battery, Secure Erase Button,18~36V DC-IN w/DTL38999, Operating Temp. -20~60°C