THOR100-X11

1U Half Military Server

MIL-STD 810   MIL-STD 461

- Intel® 11th Tiger Lake-UP3 i7-1185G7E Processor
- 1 x DDR4 SO-DIMM up to 32GB
- Dual M.2 Slots: 1 x M.2 2242/2260/2280 B-key (SATA, PCIe x 1), 1 x M.2 2230 E-key (PCIe, USB)
- 1 x 2.5" SSD
- Amphenol M12 connector applied
- IP65 classify
- Designed for Naval Defense System , withstand 75G rms Shock
- 8V~24V DC-in ; MIL-STD-461 EMI Filter 18V~36V by Optional
- Extended Temperature: -40°C ~+70 °C

Specifications

System

High performance Processor	Intel® Core™ i7-1185G7E Processor (4 Cores / 8 Threads, 12M Cache, up to 4.40 GHz), 15W/28W
Memory Type	DDR4 3200MHz / 1 x 260-pin SO-DIMM / Max. 32GB (Non-ECC)
Expansion Slot	1 x M.2 2230 E-key (Wifi & BT , PCIe / USB) 1 x M.2 2242 / 2260 / 2280 / 3042 / 3052 B-key (Storage / 5G / LTE,USB2.0 / PCIe x 1 / SATAIII)

Display

Chipset	Intel® Iris Xe Graphics
Mini DP	Up to 5120 x 3200 @ 60 Hz

Storage

SDD	1 x 2.5" SSD– up to 1TB Capacity

Ethernet

Chipset	Intel ® I219LM Giga LAN + I225LM 2.5G

FRONT I/O

Button	Water Resistive Power Button with dual-color LED Backlight
X1 (Mini DP)	Mini DP Connector (Amphenol MDPFTV7 A ZN F312 2D-45)
X2 (COM)	12-Pin A-code Female M12 Connector (Amphenol M12A-12PMMS-SF8001)
X3 (LAN)	8-Pin A-code Female M12 Connector (Amphenol M12S-04BFFB-SL7001)
X4 (LAN)	8-Pin A-code Female M12 Connector (Amphenol M12S-04BFFB-SL7001)
X5 (USB 2.0 x 2)	8-Pin A-code Female M12 Connector (Amphenol M12S-04BFFB-SL7001)

Rear I/O

DC-IN	4-Pin S-code Male M12 Connector (Amphenol M12S-04PMMS-SF8001)
Ground Screw	1

Power Requirement

Power Input	8V to 24V DC-in
Power Type	AT/ATX Mode Select by Jumper

Applications, Operating System

Applications	Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufactur-ing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions. Used in all aspects of the military.
Operating System	Windows®10 64-bit, Linux(Support by request)

Physical

Dimension (W x D x H)	220 x 380 x 44 mm
Weight	5.5 Kg (12.11 lbs)
Chassis	Aluminum AL6061
Heatsink	Aluminum Alloy, Corrosion Resistant.
Finish	Anodic aluminum oxide (Color)
Cooling	Natural Passive Convection/Conduction. No Moving Parts.
Ingress Protection	IP65

Environmental

MIL-STD-810G Test	Method 507.5, Procedure II (Temperature & Humidity) Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6 Shock-Procedure I Operating (Mechanical Shock) Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock)

Environmental

Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program.
EMC	CE and FCC compliance
Green Product	RoHS, WEEE compliance
Operating Temp.	-40 to 70°C (ambient with air flow)
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing.

Ordering Information

THOR100-X11
IP65 MIL-STD-810G Rugged Computer with Intel® i7- 1185G7E ,
8V to 24V DC-in, Extended Temp -40 to 70°C

Appearance

X1 D38999 Connector
Mini DP

X1 X2 X3 X4 X5 Power Button

X2 RS232 M12
Connector

X3 1G LAN
M12 Connector

X5 USB 2.0
M12 Connector

X4 1G LAN
M12 Connector

X6

GND

DC-IN D38999
Connector

Dimension