THOR100-X11

ULTRA-SLIM RUGGED SFF 1U/2 MILITARY

11th Tiger Lake

MIL-STD 461

- Ultra Short Depth 200mm 1U Half Rugged Computer
- Intel® 11th Tiger Lake-UP3 i7-1185G7E Processor
- DDR4 up to 32GB
- 1 x NVMe SSD up to 2TB
- Anti-Vibration up to 10 Grms, Shock 75G
- IP65 classified
- MIL-STD-461 EMI Filter DC 18V~36V
- Extended Temperature: -40°C ~+70 °C
- Size : 220x200x44 mm (W)x(D)x(H)

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 NVMe SSD– up to 2TB Capacity

Ethernet

Chipset	Intel ® I219LM Giga LAN + I225LM 2.5G

Front I/O

X1	Mini-DP with D38999 connector
X2	LAN with M12 connector
X3	LAN with M12 connector
X4	2x USB2.0 +1x RS232 with M12 connector
X5	DC-IN with D38999 connector
Button	Water Resistive Power Button with dual-color LED Backlight

Rear I/O

Ground Screw	1

Power Requirement

Power Input	18V to 36V DC-IN
Power Type	AT/ATX Mode Select by Jumper

Applications, Operating System

Applications	Military Platforms Requiring Compliance to MIL-STD-810 Embedded Computing, Process Control, Intelligent Automation and manufacturing applications where Harsh Temperature, Shock, Vibration,

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	Altitude, Dust and EMI Conditions.
Operating System	Windows®11 64-bit, Linux(Support by request)

PHYSICAL

Dimension (W x D x H)	220 x 200 x 44 mm
Weight	2 Kg
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

EMC	MIL-STD-461 : CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 1.5 MHz - 5 GHz, 50 V/m equal for all frequencies 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 CE and FCC
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.

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Ordering Information

THOR100S-X11
Ultra-Slim Rugged SFF 1U/2 Military Computer with Intel® i7- 1185G7E , 18V to 36V DC-IN, Extended Temp -40 to 70°C

Appearance

X1 Mini DP
D38999 Connector

X2 LAN
M12 connector

X3 LAN
M12 connector

X4
2x USB2.0+1x RS232
M12 connector

X5 DC-IN
D38999 connector

Power Button

Dimension

200mm

220mm

44mm

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