



LAND



SEA



AIR

THOR100-X11

Intel® Tiger lake Rugged System Computer



- 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 (SA TA, PCIe x 1), 1 x M.2 2230 E-key (PCIe, USB)
- 1 x 2.5" SSD
- Amphenol M12 connector applied
- IP65 classify



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
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Ethernet

Chipset	Intel® I219LM Giga LAN + I225LM 2.5G
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FRONT I/O

Button	Water Resistive Power Button with dual-color LED Backlight
X1 (COM)	12-Pin A-code Female M12 Connector (Amphenol M12A-12PMMS-SF8001)
X2 (Mini DP)	Mini DP Connector (Amphenol MDPFTV7 A ZN F312 2D-45)
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 manufacturing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions. Used in all aspects of the military.
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Operating System	Windows®10 64-bit, Linux(Support by request)
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Physical

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

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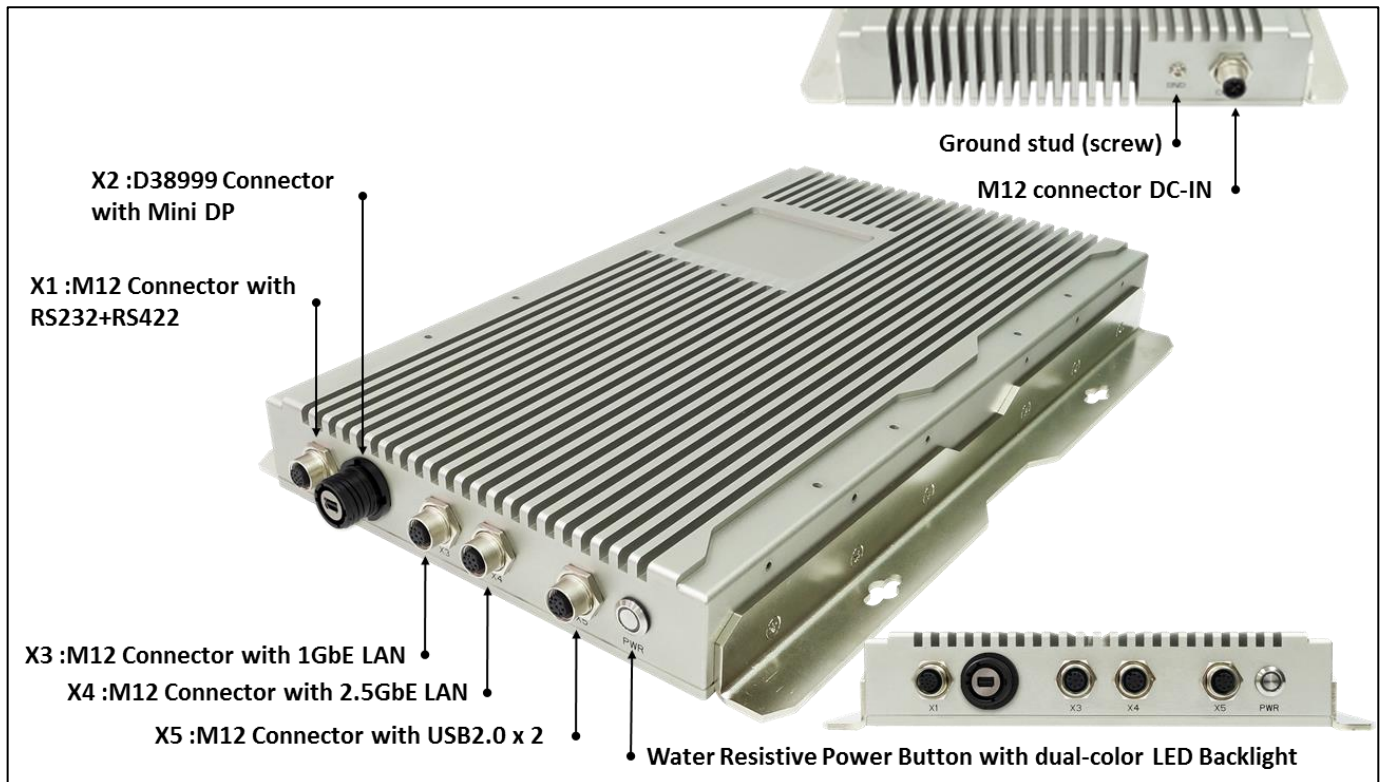
Storage Temp.	-40 to 85°C
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Relative Humidity	5% to 95%, non-condensing.
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Ordering Information

THOR100-X11

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



Dimension

Unit: mm

