



LAND



SEA



AIR

# THOR100-V11

## 1 U HALF MILITARY SERV



- Intel® 11<sup>th</sup> 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
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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 (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 manufacturing 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)
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	THOR100-X11-R	THOR100-X11-RC
<b>CPU</b>	i7-1185G7E	i7-1185G7E	i7-1185G7E
<b>RAM</b>	DDR4-16GB	DDR4-16GB	DDR4-16GB
<b>RAID</b>	N/A	0/1 (H/W)	0/1 (H/W)
<b>SATA 0</b>	SATA 512GB	Options	Options
<b>SATA 1</b>	N/A	SATA 512GB	SATA 512GB
<b>SATA 2</b>	N/A	SATA 512GB	SATA 512GB
<b>CAN</b>	N/A	N/A	2
<b>PSU</b>	8V~24V	8V~24V	9V~36V

## Appearance



# Dimension

