

THOR200! L

INTEL® KABYLAKE RUGGED SYSTEM

INTEL® CORE™ I7-7600U PROCESSOR ON BOARD, AMPHENOL TYPE CONNECTOR, IP65 CLASSIFY, 9V TO 36V DC-IN, WIDE TEMP. -40~70°C



- INTEL® CORE™ I7-7600U PROCESSOR (2 CORES, 2.8 GHZ)
- NVIDIA GT 730M GPU
- 2 X XR-DIMM UP TO 16GB
- 2 X MPCIE EXPANSION SLOT
- 1 X 2.5" HDD/ SSD
- AMPHENOL M12 CONNECTOR APPLIED
- IP65 CLASSIFY
- WIDE RANGE 9V TO 36V DC-IN
- EXTENDED OPERATING TEMPERATURE. -40 TO 70°C

SPECIFICATIONS

SPECIFICATIONS	
Low Power Processor	Intel® Core™ i7-7600U Processor (4M Cache, up to 2.80 GHz) Turbo Boost Technology 2.0 , VPro and Hyper-Threading support.
Memory	2 x XR-DIMM up to 16GB
Expansion Slot	2 x miniPCIe (1 with mSATA supported)
DISPLAY	
VGA	Resolution up to 2048 x 1536 (with SK210 NVIDIA GT730M module)
STORAGE	
HDD/SDD	1 x 2.5" HDD/SSD HDD – up to 2TB Capacity SSD – up to 1TB Capacity
mSATA	Full-size mSATA- up to 512GB Capacity Rugged Industrial NAND Flash mSATA Storage w/ Rugged -40/+85°C High Capacity, optional Pre-loaded with Linux or Windows OS. 8 to 512GB Innodisk mSATA MLC SATA III 6Gb/s Flash SSD, Rated for 400 MB/sec Sequential Read ; 200 MB/sec Write Max. Vibration: 20G @7~2000Hz, Shock: 1500G @ 0.5m, MTBF: 3 million hours. 8 to 512GB Apacer mSATA MLC SATA III 6Gb/s Flash SSD, Rated for 505 MB/sec Sequential Read ; 360 MB/sec Write Max. Vibration: 15G @7~2000Hz, Shock: 50G @ 0.5m.
ETHERNET	
Ethernet	1 x Intel I210-IT, 1 x Intel I218-LM Gigabit LAN Interfaces (10/100/1000Mbps)
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 (VGA)	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)
POWER REQUIREMENT	
Power Input	9V to 36V DC-in
Power Type	AT/ATX Mode Select by Jumper

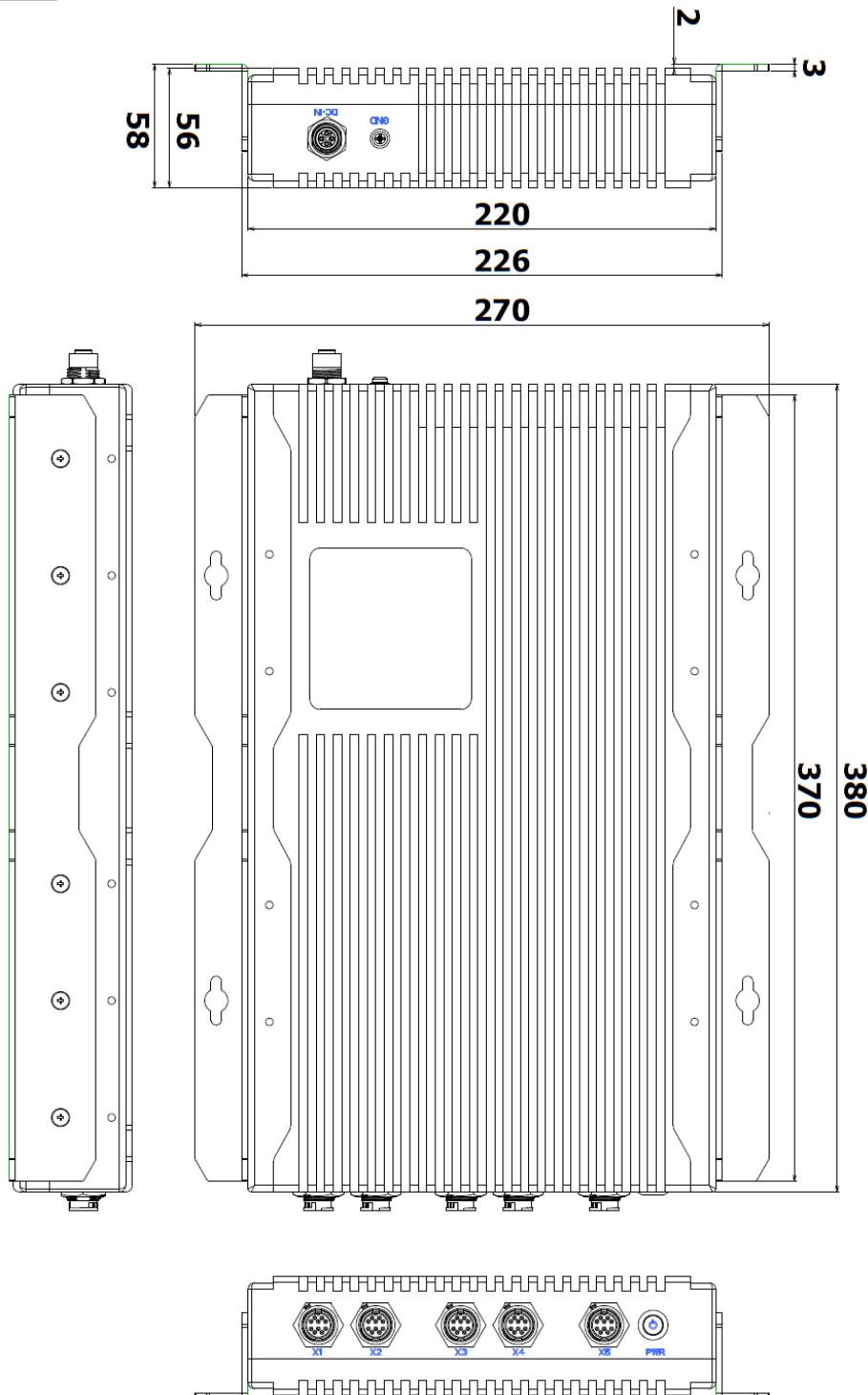
APPLICATIONS, OPERATING SYSTEM	
Applications	Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufacturing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions. Used in all aspects of the military.
Operating System	Windows 7 , Windows 8 , Windows 8.1, Windows 10 Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20.
PHYSICAL	
Dimension (W x D x H)	220 x 380 x 56 mm
Weight	7.5 Kg (16.52 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

THOR200-X3

**IP65 MIL-STD-810G RUGGED COMPUTER WITH INTEL®
CORE™ I7-7600U PROCESSOR , NVIDIA GT730M GPU
9V TO 36V DC-IN, EXTENDED TEMP -40 TO 70°C**

THOR200-X3 IS DRIVEN BY INTEL 5TH GENERATION INTEL® CORE™ I7-7600U PROCESSOR SOLDERING ONBOARD WHICH IS AN EXTREMELY COMPACT CORE I-BASED FANLESS RUGGED SYSTEM. BROADWELL PROCESSOR SUPPORTS OUTSTANDING CPU AND GRAPH-ICS PERFORMANCE, PROVIDING DUAL CORES 2.80 GHZ CLOCK SPEED WHILE CONSUMING LOW POWER CONSUMPTION 15W.

DRAWING**Unit: mm**