

THOR100-C1

INTEL® BROADWELL FANLESS RUGGED SYSTEM

INTEL® I7-5650U PROCESSOR ON BOARD,
AMPHENOL TYPE CONNECTOR, IP65 CLASSIFY,
9V TO 36V DC-IN, WIDE TEMP. -40~70°C



- INTEL® BROADWELL I7-5650U BGA
(2 CORES, 3.2GHz)
- 2X XR-DIMM UP TO 16GB
- 2 X MPCIE EXPANSION SLOT
- 1X 2.5" HDD/ SSD EASY SWAP TRAY
- AMPHENOL TYPE CONNECTOR APPLIED
- IP65 CLASSIFY
- WIDE RANGE 9V TO 36V DC-IN
- EXTENDED OPERATING TEMPERATURE.
-40 TO 70°C

SPECIFICATIONS

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Low Power Processor	Intel® Broadwell-U Core™ i7-5650U Processor (4M Cache, up to 3.10 GHz) Turbo Boost Technology 2.0 , VPro and Hyper-Threading support.
Memory	2x XR-DIMM up to 16GB
Expansion Slot	1 x Half-size miniPCIe with SATA Signal
DISPLAY	
VGA	Resolution up to 1920 x 1080 (with Innodisk EMPV-1201-W1 Display card)
STORAGE	
HDD/SDD	1 x 2.5" HDD/SSD HDD – up to SATAIII 6.0Gb/s, 2TB Capacity Solid State Disk (SSD) - up to 512GB Capacity
mSATA	Half-size mSATA- up to 128GB Capacity Rugged Industrial NAND Flash mSATA Storage w/ Rugged -40/+85°C High Capacity, optional Pre-loaded with Linux or Windows OS. 16 / 32 / 64 / 128 GB Innodisk mSATA mini 3ME2 Series MLC SATA III 6Gb/s Flash SSD, Rated for 350 MB/sec Sequential Read ; 150 MB/sec Write Max. Vibration: 20G @7~2000Hz, Shock: 1500G @ 0.5m, MTBF: 3 million hours. 8 / 16 / 32 / 64 / 128 GB Apacer mSATA mini H1-M Series MLC SATA III 6Gb/s Flash SSD, Rated for 520 MB/sec Sequential Read ; 180 MB/sec Write Max. Vibration: 15G @7~2000Hz, Shock: 50G @ 0.5m.
ETHERNET	
Ethernet	1 x Intel I211-AT, 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 x2)	8-Pin A-code Female M12 Connector (Amphenol M12S-04BFFB-SL7001)
REAR I/O	
DC-IN	4-Pin X-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

Microsoft Windows 7 Professional 32/64Bit, Microsoft Windows 8 Professional 32/64Bit, Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20.

PHYSICAL

Dimension (W x D x H)

220 x 380 x 44 mm

Weight

5.5 Kg (12.11 lbs)

Chassis

Aluminum AL6063

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 70°C

Relative Humidity

5% to 95%, non-condensing.

ORDERING INFORMATION

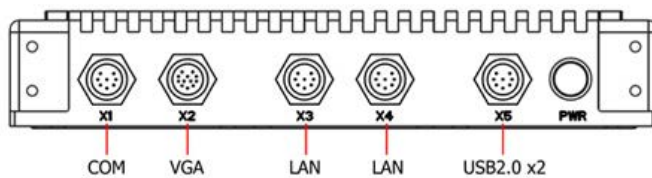
THOR100-CI

**IP65 MIL-STD-810G 1U 19"/2 RUGGED COMPUTER WITH INTEL®
I7-5650U, 9V TO 36V DC-IN, EXTENDED TEMP -40 TO 70°C**

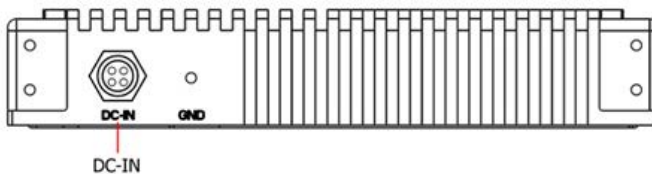
THOR100-CI IS DRIVEN BY INTEL 5TH GENERATION BROADWELL I7-5650U PROCESSOR SOLDERING ONBOARD WHICH IS AN EXTREMELY COMPACT CORE I-BASED FANLESS RUGGED SYSTEM. BROADWELL PROCESSOR SUPPORTS OUTSTANDING CPU AND GRAPHICS PERFORMANCE, PROVIDING DUAL CORES 3.2GHz CLOCK SPEED WHILE CONSUMING LOW POWER CONSUMPTION 9.5W.

APPEARANCE

Front Side



Back Side



Side

