

THOR100-AT

INTEL® BAY TRAIL FANLESS RUGGED SYSTEM

INTEL® E3845 PROCESSOR ON BOARD,
AMPHENOL TYPE CONNECTOR, IP65 CLASSIFY,
8V TO 32V DC-IN, WIDE TEMP. -40~75°C



- INTEL® ATOM E3845 BGA
(4 CORES, 1.91GHz)
- 1x DDR3 SO-DIMM DDR3L UP TO 8GB
- 2 x MPCIE EXPANSION SLOT
- 1x 2.5" HDD/ SSD EASY SWAP TRAY
- AMPHENOL TYPE CONNECTOR APPLIED
- IP65 CLASSIFY
- WIDE RANGE 8V TO 32V DC-IN
- EXTENDED OPERATING TEMPERATURE.
-40 TO 75°C

SPECIFICATIONS

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Low Power Processor	Intel® Bay Trail Atom™ E3845 Processor (2M Cache, 1.91 GHz) Intel® Virtualization Technology (Intel® VT-x), DirectX 11, OpenGL 3.0 (OGL 3.0), OpenCL 1.2 (OCL 1.2)
Memory	1 x 204-pin SODIMM, DDR3L 1333 MHz up to 8GB ECC SDRAM
Expansion Slot	1 x Full-size miniPCle 1 x Half-size miniPCle with SATA Signal
DISPLAY	
VGA	Resolution up to 2048 x 1536
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	2 x Intel I210-IT, 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	8V to 32V 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	5.4 Kg (11.89 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 75°C (ambient with air flow)
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing

ORDERING INFORMATION

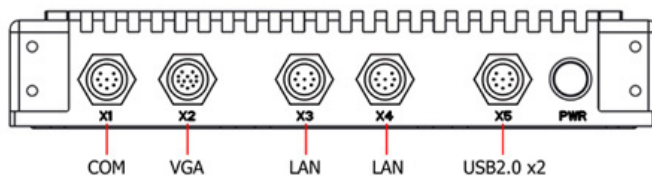
THOR100-AT

**IP65 MIL-STD-810G 1U 19"/2 RUGGED COMPUTER WITH INTEL®
ATOM™ E3845, 8V TO 32V DC-IN, EXTENDED TEMP -20 TO 70°C**

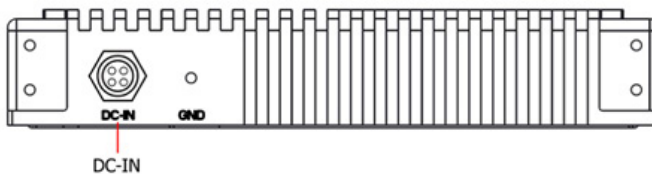
THOR100-AT IS DRIVEN BY INTEL BAY TRAIL E3845 PROCESSOR SOLDERING ONBOARD WHICH IS AN EXTREMELY COMPACT ATOM-BASED FANLESS RUGGED SYSTEM. BAY TRAIL PROCESSOR SUPPORTS OUTSTANDING CPU AND GRAPHICS PERFORMANCE, PROVIDING QUAD CORES 1.91GHz CLOCK SPEED WHILE CONSUMING LOW POWER CONSUMPTION.

APPEARANCE

Front Side



Back Side



Side

