



THURLUU

INTEL® KABYLAKE RUGGED
SYSTEM COMPUTER



INTEL® KABYLAKE RUGGED

- Intel® Broadwell i7-5650U BGA
- 2 x XR-DIMM up to 16GB
- 1 x mPCle expansion slot
- 1 x 2.5" HDD/ SSD
 - Amphenol M12 connector applied
- IP65 classify

Specifications

SYSTEM

Low Power Processor	Intel® Broadwell-U Core™ i7-5650U Processor (4M Cache, up to 3.20 GHz)
	Turbo Boost Technology 2.0 , VPro and Hyper-Threading support
Memory type	2 x XR-DIMM up to 16GB
Expansion Slot	1 x miniPCle (1 with mSATA supported)
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 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	

REAR I/O

DC-IN	4-Pin S-code Male M12 Connector (Amphenol M12S-04PMMS-SF8001)	
1 1/ 1/1	/ Din C codo Maio Mi) / oppoctor / Manhanai Mi) & M/DM/M/C CEVANT	
I // -II V	4-FILL 3-CODE MAIE MIZZ COLLECTOL (ALLICHELIO) MIZZ 3-04-FMM 3-3-60001	

	, ,
POWER REQUIREMENT	г
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
	manufactur-ing applications where Harsh Temperature, Shock, Vibration
	Altitude, Dust and EMI Conditions.
	Used in all aspects of the military.
Operating System	Microsoft Win 7 32/64Bit, Win 8 32/64Bit, Win 8.1 32/64Bit, Win 10 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 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 a 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)

ENVIRONMENTAL

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

IP65 MIL-STD-810G Rugged Computer with Intel® i7-5650U, 9V to 36V DC-in, Extended Temp -40 to 70° C

Dimension

Unit: mm

