



LAND



SEA



AIR

THOR200-PE80

2U HALF MILITARY SWITCH



- 8 x 100/1000Base-T Ethernet port with PoE(IEEE 802.3at/af)
- Layer2 Managed Switch
- DTL38999 Military Connector
- Design to Meet MIL-STD-810, MIL-STD 461
- IP65 Classified
- 18V~36V DC-IN EMI Filter
- Operating Temperature: -40°C ~ 70°C

Key Features

(1) Management Features

- Various configuration paths, including WebGUI, CLI, SNMP
- Layer 2 management features include VLAN, QoS, IGMP Snooping, LACP/Trunk
- Enhanced Rapid Spanning Tree (RSTP) for Redundancy
- Traffic management: Port classification, Port policing, Port scheduler, Port shaping, QoS control list, WRED, Port Security
- LLDP topology control

(2) Extreme PoE Capability

- 8-port IEEE 802.3af/at compliant PoE+, up to 30W/port
- Complete PoE management including Power Budget Control and PoE Status

(3) Enhanced Cyber Security for Critical Applications

- 802.1X/RADIUS port-based access control
- IP Security/Port Security
- HTTPS/ Management IP secure access
- Management VLAN separate the control and data VLAN

Specifications

SYSTEM

Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric
Number of MAC Address	4K
Packet Buffer Memory	1.75M bits
Transfer performance	10Base-T: 14,880pps, 100Base-TX/FX: 148,800pps, 1000Base-TX/FX: 1,488,100pps
VLAN	4095 VLANs
Traffic Prioritize	8 Priority Queues per Port

I/O PORT

Ethernet Port	8 x 100/1000Base-T with D38999
Console	1 x RS232 with D38999
Digital Input, Digital Output	1 x DI, 1 x DO with D38999
Power Input	1 x DC-IN with D38999

SOFTWARE

Management	WebGUI, Command Line Interface (CLI), Telnet, SNMP
Network Management	IPv4 management, SNMP v1/v2c/v3/Trap, MIBs, LLDP, DHCP client, TFTP, System Log, NTP
Traffic Management	Flow Control, Port Trunk/802.3ad LACP, VLAN, Private VLAN, Shared VLAN, Rate Limiters, Port Mirror, IGMP Snooping v2, Port classification, Port policing, Port scheduler, Port shaping, QoS control list, Storm policing, WRED, Port Security, ACL, Loop Protection
Security	IEEE 802.1X/RADIUS, Management IP, Management VLAN, SSL
Redundancy	Rapid Spanning Tree Protocol/Spanning Tree Protocol (RSTP/STP)

POWER REQUIREMENT

Power Input	18V~36V DC
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MECHANICAL

Dimension	220 x 350 x 88 mm(W x D x H) (TBD)
Weight	6kg (TBD)
Chassis	Aluminum AL6061
Heatsink	Aluminum Alloy, Corrosion Resistant.
Finish	Anodic aluminum oxide.

Cooling	Natural Passive Convection/Conduction. No Moving Parts
Ingress Protection	IP65

ENVIRONMENTAL

Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program.
Operating Temp.	-40 to 70°C (ambient with air flow)
Storage Temp.	-40 to 85°C
Relative Humidity	0% to 95%, non-condensing.

STANDARD

	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3u 100Base-FX Fast Ethernet Fiber
	IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper
	IEEE 802.3z Gigabit Ethernet Fiber
	IEEE 802.3x Flow Control and back-pressure
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	IEEE 802.1p Class of Service (CoS)
	IEEE 802.1Q VLAN
	IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP, backward compatible 802.1w)
	IEEE 802.3ad Link Aggregation Control Protocol (LACP)
	IEEE 802.1X Port based Network Access Protocol
	IEEE 802.3at Power Over Ethernet Plus(PoE+), backward compatible with 802.3af PoE

MIL-STD-810 ENVIRONMENT TESTING STANDARDS

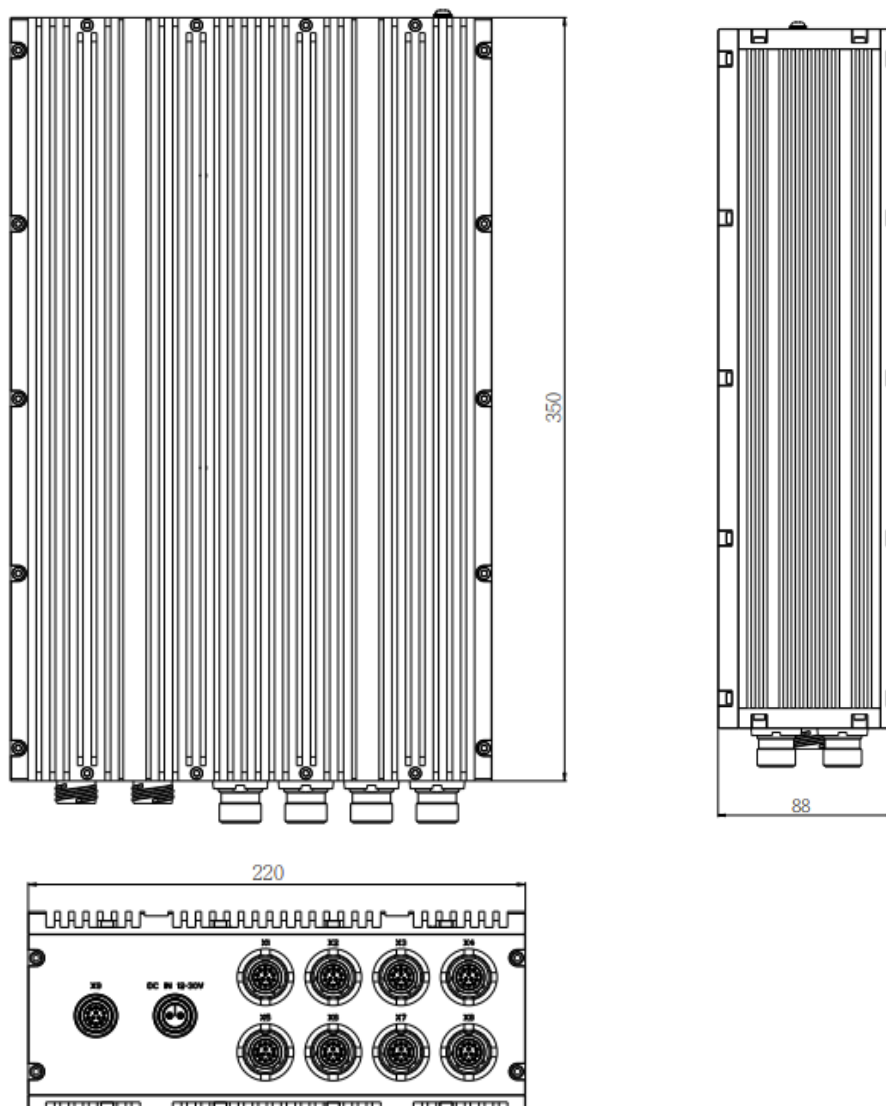
Method 501, Operational Temperature, high:	Procedure II: +60°C, two-hour dwell, four cycles
Method 501, Storage Temperature, high:	Procedure I: +70°C, two-hour dwell, four cycles
Method 502, Operational Temperature, low:	Procedure II: -20°C, two-hour dwell, four cycles
Method 502, Storage Temperature, low:	Procedure I: -30°C, two-hour dwell, four cycles

Method 514, Vibration:	Category 24/Non-Operating (Category 20 & 24, Vibration)
Method 514, Vibration:	Category 20/Operating (Category 20 & 24, Vibration)
Method 516, Shock:	Procedure V Non-Operating (Mechanical Shock)
Method 516, Shock:	Procedure I Operating (Mechanical Shock)

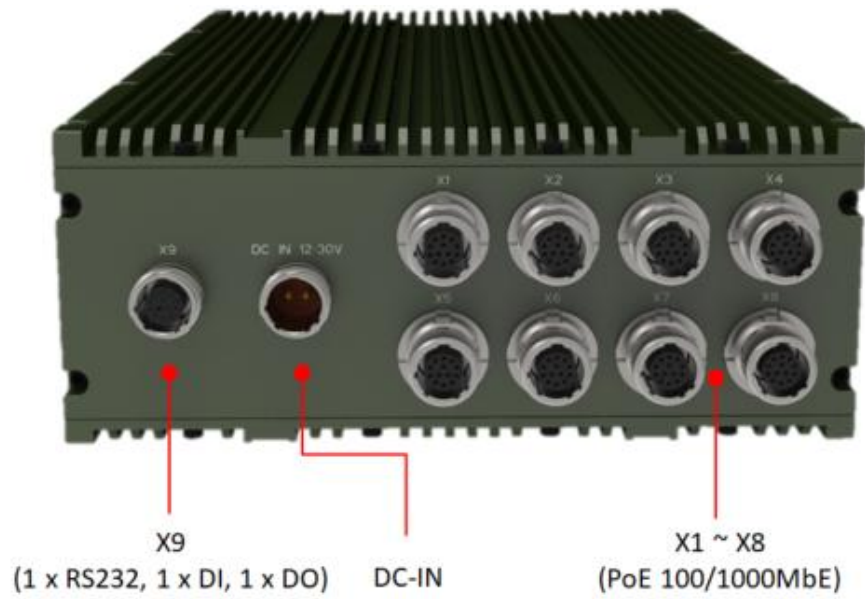
MIL-STD-461 ELECTROMAGNETIC TESTING STANDARDS

CE102	Conducted emissions, power leads, 10KHz to 10MHz
RE102	Radiated emissions, electric field, 30MHz to 5GHz
RS103	Radiated susceptibility, electric field, 80Mhz to 3GHz

Dimension



Dimension



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