



<p>Hi-PoE 90W (IEEE 802.3bt)</p> <p>Ports 1-2 deliver up to 90W each for PTZ, heaters and high-power loads</p>	<p>Industrial Grade -40 to +75 C</p> <p>Full metal fanless enclosure for harsh environments and outdoor cabinets</p>	<p>L2 Managed with ERPS</p> <p>VLAN 802.1Q, STP/RSTP, ERPS ring, LACP, SNMP v1/v2c/v3</p>	<p>250 m Long-Distance PoE</p> <p>Extend PoE up to 250 m (10 Mbps mode) with integrated PoE Watchdog</p>
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Datasheet rev. A26.04

FEATURES

- 16 x Gigabit RJ45 PoE++ ports + 4 x Gigabit SFP uplink ports + 1 x console port
- Ports 1-2: IEEE 802.3bt Hi-PoE up to 90W per port (red ports)
- Ports 3-16: IEEE 802.3af / 802.3at up to 30W per port
- 240W total PoE power budget with per-port power management
- Long-distance PoE transmission up to 250 m at 10 Mbps
- PoE Watchdog: auto-detects port status and restarts failed ports to recover IPC connections
- L2 managed: VLAN 802.1Q (4K VLANs, 10 interfaces), STP, RSTP, ERPS ring for fast loop convergence
- Link aggregation: static trunk and dynamic LACP
- DHCP Client / Server / Snooping, IGMP Snooping multicast, ACL, IEEE 802.1x security
- Full metal fanless design with wide operating range -40 C to +75 C
- DIN-rail and desktop mount (kit included)
- Redundant 53 VDC power input for high availability
- Surge protection: 8 kV air / 6 kV contact ESD, 6 kV common mode / 4 kV differential mode lightning
- Remote management via Web (HTTP/HTTPS), Telnet, SNMP v1/v2c/v3, CLI

MT-TP7-16GT240BT

TECHNICAL SPECIFICATIONS

Structure	
Product Dimensions	125.4 mm x 75.0 mm x 175.0 mm (4.94" x 2.95" x 6.89")
Packaging Dimensions	325 mm x 190 mm x 125 mm (12.80" x 7.48" x 4.92")
Net Weight	1.35 kg (2.98 lb)
Gross Weight	1.75 kg (3.86 lb)
Installation	DIN-rail and desktop mount (kit included)
Certifications	CE, FCC

Performance	
Layer	L2
Management	Yes
Switching Capacity	56 Gbps
Packet Forwarding Rate	29.76 Mpps
Packet Buffer Size	4.1 Mbit
Jumbo Frame	10 kByte
MAC Table Size	8K
VLAN Number	4K
VLAN Interface	10
Dynamic ARP	512
MTBF	467,125 hours
Communication Standard	IEEE 802.3, 802.3u, 802.3x, 802.3ab, 802.3z, 802.3ad

Protection	
ESD Protection	Air discharge: 8 kV; Contact discharge: 6 kV
Lightning Protection	Common mode: 6 kV; Differential mode: 4 kV
Enclosure	Full metal, fanless

Hardware	
Ethernet Ports	16 x RJ45 10/100/1000 Mbps (PoE)
Optical Ports	4 x SFP 1000 Mbps
Debugging	1 x console port
Reset Button	1
Power Input	53 VDC (redundant)
Included Power Adapter	No
Operating Temperature	-40 C to +75 C (-40 F to +167 F)
Operating Humidity	5% - 95% RH, non-condensing
Power Consumption	Idle: <= 6 W; Full load: 240 W

PoE	
PoE Protocol	IEEE 802.3af (PoE) / IEEE 802.3at (PoE+) / Hi-PoE / IEEE 802.3bt (PoE++)
Ports 1-2 (Hi-PoE / bt)	<= 90 W per port
Ports 3-16	<= 30 W per port
Total PoE Budget	<= 240 W
PoE Power Management	Yes, per-port configurable
PoE Pin Assignment	1, 2, 4, 5 (V+); 3, 6, 7, 8 (V-)
Long Distance PoE	Up to 250 m @ 10 Mbps
PoE Watchdog	Yes

Features	
Spanning Tree Protocol	STP, RSTP, ERPS
VLAN	IEEE 802.1Q-based
Link Aggregation	Static trunk, LACP
Flow Control	IEEE 802.3X (full-duplex)
Multicast	IGMP Snooping
DHCP	DHCP Client, DHCP Server, DHCP Snooping
Security	IEEE 802.1x, ACL, ERPS
Management	Web (HTTP/HTTPS), Telnet, CLI, SNMP v1/v2c/v3

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DIMENSIONS

