



TN-5508-4PoE Series

EN50155 8-port IEEE 802.3af PoE managed Ethernet switches



Features

- Advanced PoE management function
- Three rotary switches for setting the last 3 digits of the IP address makes maintenance even easier
- IPv6 Ready logo awarded (IPv6 Logo Committee certified)
- IEEE 1588 PTP (Precision Time Protocol) for precise time synchronization of networks
- DHCP Option 82 for IP address assignment with different policies
- Modbus/TCP industrial Ethernet protocol supported
- Turbo Ring, Turbo Chain, and RSTP/STP (IEEE802.1w/D) for network redundancy
- IGMP snooping and GMRP for filtering multicast traffic
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- QoS (IEEE 802.1p/1Q and TOS/DiffServ) to increase determinism
- IEEE 802.3ad, LACP for optimum bandwidth utilization
- SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- SNMPv1/v2c/v3 for different levels of network management

- RMON for efficient network monitoring and proactive capability
- Bandwidth management prevents unpredictable network status
- Lock port allows access by only authorized MAC addresses
- Port mirroring for online debugging
- Automatic warning by exception through email, relay output
- Line-swap fast recovery
- Automatic recovery of connected device's IP addresses
- LLDP for automatic topology discovery in network management software
- Configurable by web browser, Telnet/serial console, and Windows utility
- Panel mounting or DIN-Rail mounting installation capability

Specifications

Specification	Description
Technology	

Standards	IEEE 802.3af for Power-over-Ethernet IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X) IEEE 802.3x for Flow Control IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid STP IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP
Protocols	IGMPv1/v2, GMRP, GVRP, SNMPv1/v2C/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, LLDP, IEEE 1588 PTP, Modbus/TCP, IPv6
MIB	MIB-II, Ethernet-like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE802.3x flow control, back pressure flow control
Switch Properties	
Priority Queues	4
IGMP Groups	256
Max. Number of Available VLANs	64
VLAN ID Range	VID 1 to 4094
Interface	
Fast Ethernet	Front cabling, M12 connector, 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection
LED Indicators	10/100M (fast Ethernet port), PoE

Alarm Contact	2 relay outputs in one M12 A-coding 5-pin male connector with current carrying capacity of 3 A @ 30 VDC
System LED Indicators	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL
Console Port	M12 A-coding 5-pin male connector
Rotary Switches	For setting the last 3 digits of the IP address
Physical Characteristics	
Housing	Metal, IP54 protection (with protective caps for all unused ports)
Dimensions	185 x 170 x 110 mm (7.28 x 6.69 x 4.33 in)
Installation	Panel mounting, DIN-Rail mounting (with optional kit)
Environmental Limits	
Operating Temperature	Standard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5 to 95% RH (non-condensing)
Power Requirements	
Input Voltage	<ul style="list-style-type: none"> • 24 VDC (16.8 to 36 V) • 48 VDC (46 to 50 V) • 110/220 VDC/VAC (88 to 300 VDC, 85 to 264 VAC)
Input Current	Max. 3.5 A @ 24 VDC Max. 1.8 A @ 48 VDC Max. 0.92/0.47 A @ 110/220 VDC Max. 0.77/0.39 A @ 110/220 VAC
Overload Current Protection	Present
Connection	M23 connector

Reverse Polarity Protection	Present
Agency Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), Level 3 EN61000-4-3 (RS), Level 4 EN61000-4-4 (EFT), Level 3 EN61000-4-5 (Surge), Level 3 EN61000-4-6 (CS), Level 3 EN61000-4-8 EN61000-4-11 EN61000-4-12
Safety	UL 508 (Pending)
Shock	IEC61373
Freefall	IEC60068-2-32
Vibration	IEC61373
Traffic Control	NEMA TS2 (Pending)
Road Traffic	e-Mark (Pending)
Rail Traffic	(for panel mounting installations) EN50155 (Pending), EN50121-3-2 (Pending), EN50121-4 (Pending)
Warranty	
Warranty Period	5 years

Order Information

Model	Part #	Description

Standard Operating Temperature Models		
TN-5508-4PoE-24	TN-5508-4PoE-24	Managed Ethernet switch with 4 10/100BaseT(X) ports and 4 PoE ports with M12 connectors, 24 VDC power inputs, 0 to 60°C operating temperature
TN-5508-4PoE-48	TN-5508-4PoE-48	Managed Ethernet switch with 4 10/100BaseT(X) ports and 4 PoE ports with M12 connectors, 48 VDC power inputs, 0 to 60°C operating temperature
TN-5508-4PoE-HV	TN-5508-4PoE-HV	Managed Ethernet switch with 4 10/100BaseT(X) ports and 4 PoE ports with M12 connectors, 88 to 300 VDC power inputs, 0 to 60°C operating temperature
Extended Operating Temperature Models		
TN-5508-4PoE-24-T	TN-5508-4PoE-24-T	Managed Ethernet switch with 4 10/100BaseT(X) ports and 4 PoE ports with M12 connectors, 24 VDC power inputs, -40 to 75°C operating temperature
TN-5508-4PoE-48-T	TN-5508-4PoE-48-T	Managed Ethernet switch with 4 10/100BaseT(X) ports and 4 PoE ports with M12 connectors, 48 VDC power inputs, -40 to 75°C operating temperature
TN-5508-4PoE-HV-T	TN-5508-4PoE-HV-T	Managed Ethernet switch with 4 10/100BaseT(X) ports and 4 PoE ports with M12 connectors, 88 to 300 VDC power inputs, -40 to 75°C operating temperature
Network Management Software		
MXview-50	MXview-50	Industrial network management software with a license for 50 nodes (by IP address)
MXview-100	MXview-100	Industrial network management software with a license for 100 nodes (by IP address)
MXview-250	MXview-250	Industrial network management software with a license for 250 nodes (by IP address)
MXview-500	MXview-500	Industrial network management software with a license for 500 nodes (by IP address)
MXview Upgrade-50	MXview Upgrade-50	License expansion of MXview industrial network

		management software by 50 nodes (by IP address)
Accessories - SNMP OPC Server Pro Software		
EDS-SNMP OPC Server Pro	EDS-SNMP OPC Server Pro	OPC server for integrating SNMP devices into HMI/SCADA systems
Connectors		
M12A-5P-IP68	M12A-5P-IP68	Field-installable A-coded screw-in sensor connector, male
M12D-4P-IP68	M12D-4P-IP68	Field-installable M-12 D-coded screw-in sensor connector, 4-pin male, IP68-rated
Mounting Kits		
DK-DC50131	DK-DC50131	Din-Rail mounting kit, 50 x 131 mm
M12 Caps		
A-CAP-M12F-M	A-CAP-M12F-M	Metal cap to cover M12-female connector
A-CAP-M12M-M	A-CAP-M12M-M	Metal Cap for M12 Male Connector Male PIN