



TNS5500D-8P4GT-P24

Wall Mounting

12-port 100M/1G Railway L2 managed Industrial Ethernet Switch

- Support 4*1G M12 copper ports(with 2-group Bypass) and 8*10/100M M12 PoE copper ports
- Support SW-Ring ring network(recovery time<20ms), support single-ring, chain-ring.
- Support 24VDC power supply input
- Support IP67 protection
- Support -40~75°C wide operating temperature range



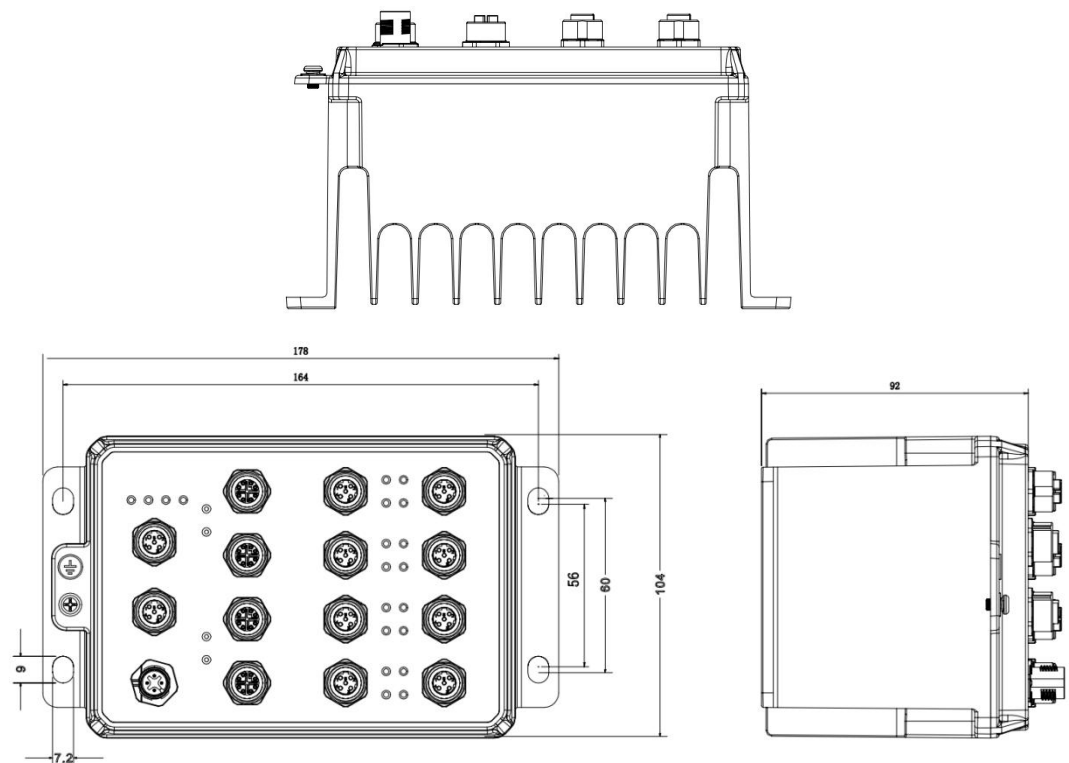
Introduction

TNS5500D-8P4GT-P24 is 12-port 100M/1G L2 managed PoE Ethernet switch. It conforms to the EN50155 and EN50121 industry standard. PoE power supply conforms to IEEE 802.3af/at protocol standard. Ethernet interfaces use firm and reliable M12 connectors which can adapt to usage scenario with vibration and shock. This product provides 100M M12 connectors and Gigabit M12 PoE connectors, and it adopts wall mounting which can meet the requirements of different scenes.

When power supply has failure or PoE overloads, the ALM indicator would be on and send alerts for quick troubleshooting on the scene. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can be widely used in systems such as vehicle PIS, CCTV, video surveillance, train control.

Dimension

Unit:mm



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for flow control IEEE 802.1d for STP IEEE802.1w for RSTP IEEE802.1s for MSTP IEEE802.1q for VLAN IEEE802.1p for CoS IEEE802.1x for authentication IEEE802.1ab for LLDP IEEE 802.3af for PoE IEEE 802.3at for PoE+ ITU-T G.8032 for ERPS
Management	SNMP v1/v2c/v3, RMON, Port Mirroring, QoS, LLDP, DHCP Server, File Management, Port statistics, Syslog, Static ARP
Security	User authority, ACL, 802.1x authentication, RADIUS, Port Alarm, Power Alarm, Storm Control, SSHD, Telnet
Switching	802.1Q VLAN, Port Trunking, Bandwidth management, Flow Control, Port Isolation
Unicast/Multicast	Static Multicast, IGMP snooping
Redundancy	SW-Ring, STP/RSTP/MSTP, ERPS, Loop detection
Troubleshooting	Ping, Traceroute, Port loopback
Time management	NTP
Interface	Gigabit M12: 10/100/1000Base-T(X), M12(Female), 8-Pin X-Coded, automatic flow control, full/half duplex mode, MDI/MDI-X autotunning, support 2-group Bypass 100M M12: 10/100 Base-T(X), M12(Female), 4-Pin D-Coded, automatic flow control, full/half duplex mode, MDI/MDI-X autotunning, Single port support max. 30W PoE, PIN 1/3+, 2/4- ALM: M12(female), 4-Pin D-coded, support 1-port relay output, current load Is 1A@30VDC or 0.3A@125VAC Console: CLI commend(RS232), M12(female), 4-PIN D-Coded
Indicator	Power, Alarm, Run, Port, PoE

Switch Property	Transmission mode: store and forward MAC address: 16K Packet buffer size: 12Mbit Backplane bandwidth: 56G Switch time delay: <10μs
Power supply	24VDC(14~34VDC), M12(Male), 4-Pin A-Coded Anti-reverse design
Power consumption	No-load: 10.2W@24VDC Full-load: 120W@24VDC
Working environment	Operating temperature: -40~75°C Storage temperature:-40~85°C Relative humidity: 5%~95% (no condensation)
Physical Characteristic	Housing: IP67 protection, metal Installation: wall mounting Dimension (W x H x D): 178mm×92mm×104mm Weight: 2.5kg

EN50121-3-2: 2016 standard, table 5.3, Level A

- Air discharge: ±8kV
- Contact discharge: ±6kV

EN50121-3-2: 2016 standard, table 3.2, Level A

- Power supply: ±2kV
- Ethernet port: ±2kV

EN50121-3-2: 2016 standard, table 3.3, Level A

- Power supply: common mode±2kV, differential mode±1kV

Industrial Standard

EN50121-3-2: 2016 standard, table 5.1/5.2, Level A

- 80MHz~800MHz, 20V/m
- 800MHz~1GHz, 20V/m
- 1.4GHz~2.0GHz, 10V/m
- 2.0GHz~2.7GHz, 5V/m
- 5.1GHz~6GHz, 3V/m

EN50121-3-2: 2016 standard, table 3.1/4.1, Level A

- Power supply: 0.15MHz~80MHz, 10V
- Ethernet port: 0.15MHz~80MHz, 10V

EN50121-3-2: 2016 standard, table 3.1, Level A

- 150kHz~500kHz, 79dBμV Quasi-peak
- 500kHz~30MHz, 73dBμV Quasi-peak

EN50121-3-2: 2016 standard, table 3.1, Level A

- 30MHz~230MHz, <40dBμV/m Quasi-peak
- 230MHz~1GHz, <47dBμV/m Quasi-peak

Shock: IEC 61373

Free fall: IEC 60068-2-32

Vibration: IEC 61373

Certification	CE, FCC, RoHS, EN50155, EN50121-3-2, IEC61373, EN45545-2, UL61010, IRIS
Warranty	5 years



Ordering Information

Model	100M M12	100M PoE M12	1G M12	1G PoE M12	1G Bypass M12	Power
TNS5500D-8P4GT-P24	—	8	4	—	2	24VDC



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