

**3-port Full Gigabit Industrial PoE Fiber Switch
(TN3M3PGIPOESW)
36W/48-57VDC**



OVERVIEW

The TN3M3PGIPOESW is a full gigabit industrial PoE fiber switch independently developed by Texa. It has 2*10/100/1000Base-T RJ45 ports and 1*1000Base-X SC single-mode dual-fiber optical module (optional single-mode/multi-mode, single-fiber/dual-fiber optical module). Port 1-2 can support IEEE802.3af/at standard PoE. Single port PoE power is 30W. As a PoE power supply device, it can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, maritime, metallurgy, and Industrial scenarios such as green energy construction build cost-effective, stable, and reliable communication networks.

FEATURE

Gigabit line speed access, Gigabit optical port uplink

- Support Gigabit Ethernet port and Gigabit SC optical port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure

Intelligent PoE power supply

- 2*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

Stable and reliable

- Low power consumption, No fan, aluminum shell. CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE

TECHNICAL SPECIFICATION

Model	TN3M3PGIPOESW	TN3M3PGIPOESW
Interface Characteristics		
Fixed Port	1*10/100/1000Base-T PoE port (Data/Power) 1*1000Base-X single-mode	2*10/100/1000Base-T PoE ports (Data/Power) 1*1000Base-X single-mode
	dual-fiber SC fiber port(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)	dual-fiber SC fiber port(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)	
Fiber Port	Default Gigabit single-mode dual-fiber SC optical module (optional single-mode single-fiber/multi-mode dual-fiber optical module)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0 ~ 500m, Single-mode: 1310nm/0 ~ 40km, 1550nm/ 0 ~ 120km.	
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T,IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	

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Switching Capacity	10Gbps	
Forwarding Rate@64byte	2.98Mpps	4.46Mpps
MAC	2K	
Buffer Memory	2M	
Jumbo Frame	9.2K	
LED Indicator	Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green)	
PoE & Power Supply		
PoE Port	Port 1 support IEEE802.3af/at @ POE	Port 1 to 2 support IEEE802.3af/at @ POE
Power Supply Pin	Default :1/2 (+), 3/6 (-)	
Total PWR / Input Voltage	Max 36W/48-57VDC	Max 60W/48-57VDC
Power Consumption	Standby<4W, Full load<32W	Standby<5W, Full load<60W
Operating Voltage	48-57VDC, 5P industrial Phoenix terminal, support anti-reverse protection.	
Power Supply	No, optional 48V/36W or 48V/60W industrial power supply	
Physical Parameter		
Operation TEMP / Humidity	-40~+75°C, 5%~90% RH Non condensing	

Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	92*88*32mm
Net /Gross Weight	<0.4kg / <0.6kg
Installation	Desktop, 35mm DIN rail
Certification & Warranty	
Lightning Protection	Lightning protection: 6KV 8/20us; Protection level: IP40
	IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge
	IEC61000-4-3(RS):10V/m(80~1000MHz)
	IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV
	IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV
	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)
	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s
	IEC61000-4-9(pulsed magnet field):1000A/m
	IEC61000-4-10(damped oscillation):30A/m 1MHz
	IEC61000-4-12/18(Shockwave):CM 2.5kV,DM 1kV
IEC61000-4-16(common-mode transmission):30V; 300V,1s	
	FCC Part 15/CISPR22(EN55022):Class B
	IEC61000-6-2(Common Industrial Standard)
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B RoHS
Warranty	3 years, lifelong maintenance.