

52-port Full Gigabit Managed PoE Fiber Switch (TN3M52PGPOESW) 600W/(AC100-240V)



OVERVIEW

The TN3M52PGPOESW is a Gigabit L2+ managed PoE switch. It has 48*10/100/1000Base-T adaptive RJ45 ports and 4*100/1000Base-X SFP slot ports. Port 1-48 can support IEEE 802.3 af/at PoE standard, and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and identify powered devices that meet standards and power them through network cables. It can power PoE terminal equipment such as wireless AP, IP camera, Internet telephone, and building visual access control intercoms through network cables to meet network environments that require high-density PoE power supply. It is suitable for hotels, campuses, parks, supermarkets, scenic spots, factory dormitories, and SMB small and medium-sized enterprises to establish cost-effective networks.

The TN3M52PGPOESW has L2+ network management functions. It supports IPV4 management and static routing forwarding, complete security protection mechanisms, complete ACL/QoS policies, and rich VLAN functions, making it easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) to improve link backup and network reliability. When a one-way network fails, communication can be

quickly restored to ensure uninterrupted communication of important transmissions. According to application needs, PoE power supply management, port flow control, VLAN division, QoS, and other application service configurations can be performed through network management methods such as Web, CLI, SNMP, and Telnet.

FEATURE

Gigabit line speed access, optical port uplink

- Support non-blocking line-speed forwarding for smoother transmission.
- Support IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control.
- Support Gigabit Ethernet port and Gigabit SFP port uplink combination, which facilitates users' flexible networking and meets the networking needs of various scenarios..

Intelligent PoE power supply

- Comply with IEEE 802.3 af/at PoE power supply standard, automatically identify PoE equipment for power supply.
- 48*10/100/1000Base-T RJ45 ports support PoE power to meet the power supply needs of security monitoring, conference call systems, wireless coverage, and other scenarios.

- PoE ports support priority mechanism. When the remaining power is insufficient, priority is given to ensuring the power supply of high-priority ports to avoid equipment overload.
- Support PoE network management function, which can realize power allocation of each PoE port, priority setting, port power status viewing, time scheduling, etc. through network management configuration.

Strong business processing capability

- Support IEEE 802.1Q VLAN and protocol VLAN, users can flexibly divide VLAN according to needs.
- Ring network STP/RSTP/MSTP spanning tree protocol eliminates layer 2 loops and realizes link backup.
- Support QoS, three priority modes based on port, 802.1P-based and DSCP-based, and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL to filter data packets by configuring matching rules, processing operations, and time permissions to provide flexible security access control strategies.
- Support IGMP V1/V2 multicast protocol and IGMP Snooping to meet the needs of multi-terminal high-definition video surveillance and video conferencing access.
- Static aggregation and dynamic aggregation effectively increase link bandwidth, achieve load balancing, and link backup, and improve link reliability.

Security

- Support port isolation.
- Support port broadcast storm suppression.
- Support IP+MAC+port+VLAN quadruple flexible combination binding function.
- Support 802.1X authentication to provide authentication functions for LAN computers, and control the authorization status of controlled ports according to the authentication results

Stable and reliable

- CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, PoE, and Link.
- Using self-developed power supply with high redundancy design provides long-term and stable PoE power output.
- Low power consumption, with fan, galvanized steel metal casing, excellent heat dissipation to ensure the stable operation of the switch.

Easy O&M management

- CPU monitoring, memory monitoring, Ping detection, cable detection.
- HTTPS, SSLV3, SSH V1/V2 and other encryption methods make management more secure.
- RMON, system logs, and port traffic statistics facilitate network optimization and transformation.
- LLDP facilitates the network management system to query and determine the communication status of the link.
- Web network management, CLI (Console, Telnet), SNMP (V1/V2/V3), Telnet and other diversified management and maintenance methods

TECHNICAL SPECIFICATION

Model	TN3M52PGPOESW
Interface Characteristics	
Fixed Port	1*Console RS232 port (115200,N,8,1) 4*100/1000Base-X uplink SFP ports (Data) 48*10/100/1000Base-T PoE ports (Data /Power)
Ethernet Port	Port 1-48 can support 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 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
SFP Slot Port	Gigabit SFP optical fiber interface, default no include optical modules (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm /0-550m Single-mode: 1310nm /0-40km, 1550nm /0-120km.
Chip Parameter	
Network Management Type	L2+
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)

Switching Capacity	104Gbps (Non-blocking)
Forwarding Rate@64byte	77.38Mpps
CPU	750MHz
DRAM	1G
FLASH	256M
MAC	16K
Buffer Memory	12M
Jumbo Frame	10K
LED Indicator	Power: PWR (Yellow), System: SYS (Yellow) Network: Link/Act (Yellow), PoE: PoE (Green), Fiber port: L/A(Green)
Reset Switch	Yes, One-button factory reset
PoE & Power Supply	
PoE Port	Port 1 to 48
PoE Management	Port PoE output priority configuration PoE power supply total power limit configuration PoE work and time scheduling, Port PoE working status display
Power Supply Pin	600W/ (AC100-240V)
Max Power Per Port	30W, IEEE 802.3 af/at
Total PWR / Input Voltage	600W/ (AC100-240V)
Power Consumption	Standby<22W, Full Load<600W

Power Supply	Built-in power supply, AC100~240V 50-60Hz, 6.6A
Physical Parameter	
Operation TEMP / Humidity	-20°C~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40°C~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440*290*44.5mm
Net /Gross Weight	<5.0kg / <5.5kg
Installation	Desktop, 19-inch 1U cabinet
Certification & Warranty	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	3 years, lifelong maintenance.