

28-port 10G Uplink Managed PoE Switch (TN3M28PGPOE+10G) 400W/(AC100-240V)



OVERVIEW

The TN3M28PGPOE+10G is a 10G uplink managed PoE switch independently developed by TEXA. It has 24*10/100/1000Base-T adaptive RJ45 ports and 4*1/10G uplink SFP+ fiber ports. Port 1-24 can support the IEEE 802.3 af/at PoE standard, and single-port PoE power reaches 30W. As a PoE power supply device, it can automatically detect and identify power-receiving devices that meet the standard and power them through the network cable. It can power wireless APs, network cameras, network phones, building visual access control intercoms, and other PoE terminal devices through network cable-meeting the network environment that requires a high-density PoE power supply and is suitable for hotels, campuses, parks, supermarkets, scenic spots, factory dormitories, and small and medium-sized enterprises to build economical and efficient networks.

The TN3M28PGPOE+10G has L2+ network management functions, supports IPV4/ IPV6 management, static routing forwarding, complete security protection mechanism, perfect ACL/ QoS strategy, and rich VLAN functions for easy management and maintenance. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-TG.8032) ERPS (<20ms) to improve link backup and network reliability. When a unidirectional 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 functions can be configured through Web, CLI, SNMP, Telnet, and other network management methods.

FEATURE

Gigabit access, uplink 1/10G SFP+ fiber port

- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and uplink 1/10G SFP+ fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

SmartPoE powersupply

- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- 24*10/100/1000Base-T RJ45 ports support PoE power supply to meet security monitoring, conference call systems, wireless coverage, and other scenarios.
- The PoE port supports the priority mechanism. When the remaining power is insufficient, the power of the high-priority port is given priority to avoid overloading of the device.

Security

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

Strong business processing capability

- Support ERPS ring network and STP/ RSTP/ MSTP to eliminate layer 2 loops and realize link backup.
- Support IEEE 802.1Q VLAN, Users can flexibly divide VLAN, Voice VLAN, and QinQ configuration according to their needs.
- Support static and dynamic aggregation to effectively increase link bandwidth, realize load balancing, link backup, and improve link reliability.
- Support QoS, port-based, 802.1P-based, and DSCP-based three priority modes and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL to filter data packets by configuring matching rule processing operations and time permissions, and provide flexible security access control policies.
- Support IGMP V1/V2/V3 multicast protocol, IGMP Snooping meets multi-terminal high-definition video surveillance and video conference access requirements..

Stable and Reliable

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

Easy O&M management

- Support CPU monitoring, memory monitoring, Ping detection, and cable length detection.
- HTTPS, SSLV3, SSHV1/V2, and other encryption methods are more secure in management..
- RMON, system log, and port traffic statistics are convenient for network optimization and transformation.
- LLDP is convenient for the network management system to query and judge the communication status of the link. Support diverse management and maintenance methods such as Web network management, CLI command line (Console, Telnet), SNMP (V1/V2/V3), Telnet, etc.

TECHNICAL SPECIFICATION

Model	TN3M28PGPOE+10G	TN3M28PGPOE+10G
Interface Characteristics		
Fixed Port	1*Console RS232 port (115200,N,8,1)	
	4*1/10G uplink SFP+ fiber ports (Data)	
	24*10/100/1000Base-T PoE ports (Data/ Power)	
Ethernet Port	Port 1-24 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)	
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, 0-300m(10G), Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km	
Chip Parameter		
Network Management Type	L2+	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3ae 10GBase-LR/SR, IEEE 802.3x	
Forwarding Mode	Store and Forward (Full wire speed)	
Switching Capacity	176Gbps (non-blocking)	
Forwarding Rate@64byte	95.23Mpps	
CPU (Hz)	500M	

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DRAM	2G	
FLASH	128M	
MAC	32K	
Buffer Memory	32M	
Jumbo Frame	9.6K	
LED Indicator	Power: PWR (Yellow), System: SYS (Yellow), Network: Link (Yellow), PoE: PoE (Green), Fiber port: L/A (Green)	
Reset Switch	Yes	
PoE& Power Supply		
PoE Port	Port 1-24	
PoE Management	PoE power supply total power limit configuration	
	Power delay start, PoE work and time scheduling	
	Port PoE working status display, Port PoE output priority configuration	
	Port PoE output power distribution, PoE on/off, af/at power distribution	
Power Supply Pin	1/2(+) 3/6 (-)	
Max Power Per Port	30W, IEEE 802.3 af/at	
Total PWR/ Input Voltage	400W/ (AC100-240V)	600W/ (AC100-240V)
Power Consumption	Standby<25W, full Load<400W	Standby<30W, full Load<600W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 5.0A	Built-in power supply, AC100~240V 50-60Hz, 6.6A
Physical Parameter		
Operation Temp/ Humidity	-20~+55°C, 5%~90% RH non condensing	
Storage Temp/ Humidity	-40~+80°C, 5%~95% RH non condensing	
Dimension (L*W*H)	440*290*44.5mm	
Net /Gross Weight	4.0kg/ 4.8kg	4.3kg/ 5.2kg

Installation	Desktop, 1U/19" 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, RoHS
Warranty	3 years, lifelong maintenance.