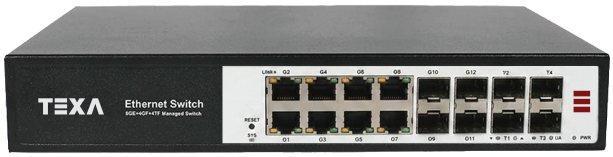
www.texanetworks.com

16-port 10G Uplink Managed Ethernet Switch

(TN911610GSW)

30W/(AC100-240V)



OVERVIEW

The TN911610GSW is a 10G uplink managed Ethernet switch independently developed by It has 8*10/1DD/1000Base-T adaptive RJ45 ports and 4*100/1000Base-X SFP fiber ports and 4*1/10G uplink SFP+ fiber ports. Each port can support wire-speed forwarding The TN911610GSW has L3 network management functions, supports |PV4/ IPV8 management, dynamic routing and forwarding. complete security protection mechanism, perfect AL/QoS strategy. and rich VLAN function for easy management andmaintenance. It supports multiple network redundancy protocols. STP/RSTP/MSTP (<50ms) and (ITU-T G.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 applications. According to actual application needs, port management, routing address management, port flow control, VLAN division, IGMP, security policy, and other application business configurations can be performed through network management methods such as Web, CLI, SNMP. Telnet, etc. It meets the high-density network application environment and is suitable for hotels, campuses.
parks, supermarkets, scenic spots, hospitals, banks, and other small and medium-sized
scenes to build economical, efficient, and reliable communication networks.

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 R.J45 port and 1/10G uplink SFP+ fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

Strong business processing capability

- Support ERPS ring network and STP/ RSTP/ MSTP to eliminate layer 2 loops and realize link backup.
- Support IEEE802.1Q 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 andfour 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..

71/75 Shelton Street, Convent Garden
London, WC2H 9JQ

Security

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

Security

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

Easy O&M management

- Support CPU monitoring, memory monitoring, and Ping detection.
- Support HTTPS, SSLV3, SSHV1/2, and other encryption methods, making management more secure.
- Support RMON, system log, and port traffic statistics to facilitate network optimization and transformation.
- Support LLDP to facilitate the network management system to query and judge the communication status of the link.
- Support Web network management, CLI command line (Console, Telnet), SNMP (V1N2/V3), Telnet, and other diversified management and maintenance.

TECHNICAL SPECIFICATION

Model	TN911610GSW
Interface Characteristics	
Fixed Port	1*Console port (115200,N,8,1) 4*1/10G uplink SFP+ fiber ports (Data) 8*10/100/1000Base-T RJ45 ports (Data) 4*100/1000Base-X SFP fiber ports (Data)
Ethernet Port	Port 1-8 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/6 or later UTP (≤100 meters)
Optical Fiber Port	Default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)

71/75 Shelton Street, Convent Garden
London, WC2H 9JQ

Optical Fiber Port Expansion	Turbo overclocking 2.5G optical module expansion and ring network
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m (1G), 850nm/ 0-300m (10G), Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Chip Parameter	
Network Management Type	L3
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE 802.3u100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3ae 10GBase-SR/LR, IEEE802.3x
Forwarding Mode	Store and forward (Full wire speed)
Switching Capacity	128Gbps (non-blocking)
Forwarding Rate@64byte	77.38Mpps
CPU(Hz)	800M
DRAM	1G
FLASH	128M
MAC	16K
Buffer Memory	12M
Jumbo Frame	12K
LED Indicator	Fiber port: L/A (Green), Network: Link (Yellow), System: SYS (Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
Power Supply	
Total Power/ Input Voltage	30W/ (AC100-240V)
Power Consumption	Standby<13W, full load<20W

71/75 Shelton Street, Convent Garden-
London, WC2H 9JQ

Power Supply	Built-in power supply, AC100~240V 50-60Hz, 0.65A
Physical Parameter	
Operation Temp/ Humidity	-20~55°C, 5%~90% RH non condensing
Storage Temp/ Humidity	-40~75°C, 5%~95% RH non condensing
Dimension (L*W*H)	270*181*44.5mm
Net /Gross Weight	1.3kg/ 1.8kg
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.

4

71/75 Shelton Street, Convent Garden
London, WC2H 9JQ