JetStream 28-Port Gigabit Stackable L2+ Managed Switch

MODEL: T2700G-28TQ Datasheet

Overview

TP-Link T2700G-28TQ is an L2+ managed switch designed to build a highly accessible, scalable, and robust network. The switch is equipped with 24 Gigabit RJ-45 ports, 4 Combo Gigabit SFP and up to 4 10Gbps SFP slots, giving network administrator great network flexibility. It supports basic Layer3 features like static routing and RIP v1/v2 by default and can be upgraded to support abundant Layer 3 features such OSPF/ECMP/PIM/VRRP with the addition of a Layer3 license. What's more, with physical stacking feature and optional redundant external power unit, T2700G-28TQ provides a robust network with efficient redundancy. T2700G-28TQ provides robust security to help secure your enterprise network.

TP-Link's T2700G-28TQ L2+ managed switch provides a reliable and cost-effective solution for enterprise, campus and ISP networks.

Please contact with TP-Link's authorized distributor to purchase the license key if (T2700G-28TQ-L1000) needed and then go to T2700G-28TQ page at TP-Link website to download the license with the license key.

Specifications

Hardware Specifications & Performance

Product Picture		
Model		T2700G-28TQ
Hardware Features	Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE 802.3ae, IEEE 802.3ad, IEEE 802.3x, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p
	Interfaces	24 10/100/1000Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX) 4 Combo Gigabit SFP Slots Up to 4 10G SFP+ Slots (2 fixed and 2 optional 10G SFP+ Slots) 1 RJ45 Console Port
	Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) 100BASE-TX/1000Base-T: UTP category 5, 5e or above cable (maximum 100m) 100BASE-FX: MMF, SMF 1000BASE-X: MMF, SMF 10GBASE-LR 10GBASE-SR
	Dimensions (W x D x H)	17.32*13*1.73 in. (440*330*44 mm)
	Fan Quantity	4
	Max Power Consumption	63W (220V/50Hz)
	Max Heat Dissipation	214.96 BTU/h
	Power Supply	100-240V AC, 50/60Hz
	Certications	CE, FCC, RoHS
	Environment	Operating Temperature: 0°C to 40°C (32°F to 104°F) Storage Temperature: -40°C to 70°C (-40°F to 158°F) Operating Humidity: 10% to 90%RH, non-condensing Storage Humidity: 5% to 90%RH, non-condensing
Performance	Switching Capacity	Up to 128Gbps for a standalone switch
	Forwarding Rate	Up to 95.2Mpps for a standalone switch
	Backplane	Up to 320Gbps when 8 units in the stack
	MAC Address Table	32K
	Packet Buffer Memory	2 MB
	Jumbo Frame	10240Bytes
	Number of Routes	12K
	Number of Static Routes	256
	Number of IP Interfaces	128
Physical Stacking	Installable SFP+ Transceivers and Direct Attach Copper (DAC) Cables	TXM431-SR TXM431-LR TXC432-CU1M TXC432-CU3M
	Max Number of Stacking Ports Installable	2 SFP+
	Stacking Speed (Per Port)	20 Gbps (Full-Duplex)
	Number of Units Per Stack	8

Software Features

Stackability	• Physical Stacking
	  - Up to 320Gbps of Backplane when 8 units in the
	    stack
	  - Up to 8 units per Stack
		• Virtual Stacking
		  - Single IP Management (Cluster)
		  - Up to 32 units per Virtual Stack

Basic L3 Routing Features	• L3 Routing
	  - Up to 12K entries (all route entries combined)
	  - Up to 12K dynamic route entries
	  - Up to 256 static route entries
	  - Up to 128 IP Interfaces
		• L3 Forwarding
		  - Up to 8K entries (all L3 Hardware Forwarding
		    Entries Combined)
		• RIP v1, v2
		• DHCP Server/Relay

Advanced L3 Routing Features (License required)	• OSPF
	  - OSPF v2
	  - OSPF Passive Interface
	  - OSPF NSSA (Not So Stubby Area)
	  - OSPF Equal Cost Route
	• IGMP v1,v2,v3
	• VRRP
		• Multicast Routing
		  - Static Multicast Route
		  - PIM-DM/SM
		  - PIM SSM
		• ARP Proxy
		• Gratuitous ARP

L2 Switching Features	• Link Aggregation
	  - Static Link Aggregation
	  - 802.3ad LACP
	  - Up to 32 aggregation groups, containing 8 ports
	    per group
	• Spanning Tree Protocol (STP)
	  - 802.1D STP
	  - 802.1w RSTP
	  - 802.1s MSTP
	  - STP Security: Loop back detection, TC Protect,
	    BPDU Filter/Protect, Root Protect
	• IEEE 802.3x flow control for Full Duplex mode and
	  backpressure for Half Duplex mode
		• Multicast
		  - Support IGMP Snooping V1/V2/V3, up to 1K
		    groups
		  - Support multicast VLANs, IGMP Immediate
		    Leave, Unknown IGMP Throttling, IGMP Filtering,
		    Static Multicast IP
		• VLAN
		  - Support IEEE802.1Q with 4K VLAN groups and
		    4K VIDs
		  - Support Port VLAN, Protocol VLAN, and Private
		    VLAN
		  - Support GARP/GVRP feature
		• LLDP

Quality of Service (QoS)	• 802.1p/DSCP priority
	• 8 Priority Queues
	• Queue Scheduling
	  - SP (Strict Priority)
	  - WRR (Weighted Round Robin)
	  - SP+WRR
		• Bandwidth Control
		  - Port/Flow based Rating Limiting
		• Voice VLAN assure voice applications much
		  smoother performance

Advanced Security Strategies	• IP-MAC-Port-VID Binding
	• Static/Dynamic Port Security (MAC-based)
	• DoS defend feature
	• Dynamic ARP Inspection
	• 802.1x authentication
	  - Support 802.1x port/MAC based authentication
	  - Support Radius authentication and accountability
	  - Guest VLAN
	• Support Broadcast, Multicast and Unknown
	  unicast Storm Control
		• Access Control List (ACL)
		  - L2 to L4 package _ltering based on source and
		    destination MAC address, IP address, TCP/UDP
		    ports, 802.1p, DSCP, protocol and VLAN ID
		  - Time based ACL
		• Secure web management through HTTPS and
		  SSLv2/v3/TLSv1
		• Secure remote command line interface (CLI)
		  management with SSH v1/V2

Management	• Web-based GUI • Command Line Interface(CLI) through console port, telnet • SNMPv1/v2c/v3 • RMON (1,2,3,9 groups) • DHCP/BOOTP Client • DHCP Snooping • DHCP Server/Relay • DHCP Option 82	• CPU Monitoring • Port Mirroring (Many to One) • Cable Diagnostics feature • Ping/Tracert feature • SNTP • Integrated NDP/NTDP feature • System Log • Dual Image

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Software Features

Ethernet Protocols	• IEEE 802.3i 10BASE-T • IEEE 802.3u 100BASE-TX/FX • IEEE 802.3ab 1000BASE-T • IEEE 802.3z 1000BASE-X • IEEE 802.3ae 10GBASE-SR/LR • IEEE 802.3av GVRP • IEEE 802.3ad Link Aggregation • IEEE 802.3x Flow control	• IEEE 802.1p QoS • IEEE 802.1q VLANs / VLAN tagging • IEEE 802.1v Protocol VLAN • IEEE 802.1d Spanning Tree Protocol (STP) • IEEE 802.1s Multiple Spanning Tree (MSTP) • IEEE 802.1w Rapid Spanning Tree (RSTP) • IEEE 802.1x Network Login Security
MIBs	• MIB II (RFC1213) • Interface MIB (RFC2233) • Ethernet Interface MIB (RFC1643) • Bridge MIB (RFC1493) • P/Q-Bridge MIB (RFC2674) • RMON MIB (RFC2819)	• RMON2 MIB (RFC2021) • Radius Accounting Client MIB (RFC2620) • Radius Authentication Client MIB (RFC2618) • Remote Ping, Traceroute MIB (RFC2925) • Support TP-Link private MIBs

Ordering Information

Host Switch	
Product Model	**Description**
T2700G-28TQ	JetStream 28-Port Gigabit Stackable L2+ Managed Switch
Auxiliary Products	
Product Model	**Description**
T2700G-28TQ-L1000	T2700G-28TQ Layer 3 License Upgrade
TX432	10-Gigabit 2-Port SFP + Module
TXM431-SR	10GBase-SR SFP+ LC Transceiver
TXM431-LR	10GBase-LR SFP+ LC Transceiver
TXC432-CU1M	1M Direct Attach SFP+ Cable
TXC432-CU3M	3M Direct Attach SFP+ Cable
RPS150	150W Redundant Power Supply
RPS2	Dual Bay Rackmountable RPS Shelf
PSM150-AC	150W AC Power Supply Modul
SFP Modules	
Product Model	**Description**
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 10km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance
TL-SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1550nm/RX:1310nm, 10km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1310nm/RX:1550nm, 10km

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