

JetStream T3700 Series L3 Managed Switches

MODEL: T3700G-52TQ Datasheet



Highlights

- Abundant Layer 3 routing protocols including RIP/OSPF/VRRP to support a scalable network
- True physical stacking technology supports up to 8 switches for scalability and efficient redundancy
- -10 Gigabit Ethernet uplink ports ensure smooth data delivery for high-bandwidth applications
- 2 removable power units minimize downtime
- PIM-SM/PIM-DM/IGMP Snooping for reliably stable video quality
- RJ45/Micro-USB Console ports and an out-of-band management port provide a range of management options
- A USB 2.0 port makes it easy to import files and restore configurations.



Overview

TP-Link's JetStream T3700 series L3 managed switches are designed to form highly accessible, scalable and robust networks. With an extensive suite of routing protocols, 10Gbps wired speeds, physical stacking technology, diverse management features and an optional redundant external power unit, TP-Link's JetStream T3700 series provide a reliable, secure and cost-effective solution for enterprise, campus and ISP networks.

Advanced L3 Features

T3700 series switches support Layer 3 routing protocols that include Static Routing, RIP, OSPF and VRRP, helping to build scalable, reliable networks. Multicast routing protocols such as PIM-SM and PIM-DM guarantee efficient routing for multicast groups.

Physical Stacking Technology

The switches are equipped with 2 fixed and 2 optional 10G SFP+ ports which can be used for stacking. T3700G-52TQ supports up to 8 switches for network simplification, and up to 384 GE, 32 Gigabit combo SFP and 32 10G SFP+ ports per physical stack, providing up to 1408Gbps total switching capacity for the network. With all units identified by a simple IP address, the stack can be easily configured and monitored.

Rich Out-of-band management port

T3700 series switches provide 3 kinds of out-of-band management ports: RJ45 console ports, Micro-USB console ports and RJ45 out-of-band management ports. Micro-USB console ports are designed for those laptop computers which do not support the RS232 (DB9) interface. Customers can use a USB cable to manage switches through the CLI (command-line interface). The RJ45 out-of-band management port is used solely for web management, leaving the RJ45 ports free for data transmission.

Specifications

	T3700G-52TQ	
Standard and Protocols	IEEE 802.3i 10BASE-T Ethernet 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 802.3x Flow control IEEE 802.3d Link Aggregation IEEE 802.1v Protocol VLAN IEEE 802.1t Spanning Tree Protocol (STP) IEEE 802.1s Rapid Spanning Tree (RSTP) IEEE 802.1w Multiple Spanning Tree (MSTP) IEEE 802.1q VLANs / VLAN tagging IEEE 802.1x Network Login Security IEEE 802.1p QoS	
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) 1000BASE-X: MMF, SMF 10GBASE-LR 10GBASE-SR	
Interfaces	48 10/100/1000Mbps RJ45 ports 4 combo Gigabit SFP Slots Up to 4 10G SFP+ Slots (2 fixed and 2 optional 10G SFP+ Slots) 1 RJ45 Console Port 1 Micro-USB Console Port 1 RJ45 out-of-band Management Port 1 USB 2.0 Storage Port	
Switching Capacity	176Gbps	
Packet Forwarding Rate	130.9Mpps	
MAC Address Table	32K	
Packet Buffer	32Mbit	
Jumbo Frame	12KB	
Power Supply	100-240V AC, 50/60Hz	
Max Power Consumption	58.82W (220V/50Hz)	
Max Heat Dissipation	200.69 BTU/h	
Dimensions (W × D × H)	17.3 × 16.5 × 1.7 in. (440 × 420 × 44 mm)	
Fan Quantity	1 removable fan module	
Operating Temperature	0°C~40°C (32°F~104°F)	
Storage Temperature	-40°C~70°C (-40°F~158°F)	
Operating Humidity	10% ~ 90%RH, non-condensing	
Storage Humidity	5%~90%RH, non-condensing	
	Network Media Interfaces Switching Capacity Packet Forwarding Rate MAC Address Table Packet Buffer Jumbo Frame Power Supply Max Power Consumption Max Heat Dissipation Dimensions (W × D × H) Fan Quantity Operating Temperature Storage Temperature Operating Humidity	

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)	20Gbps (Full-Duplex)	
Number of Units Per Stack	8	

Stacking Speed (Per Port)		20Gbps (Full-Duplex)		
Number of Units Per Stack		8		
Software F	eatures			
Stack	Physical StackingUp to 1408Gbps of BarUp to 8 units per stack	ckplane when 8 units in the s	tack	
L3 Features	 L3 Routing 128 IPv4 Interface entrell 256 IPv4 Static Routing 8K IPv4 Dynamic Routing RIP v1, v2 OSPF v1, v2 IGMP v1, v2, v3 	g entries	 Multicast Routing Static Multicast Route PIM-DM/SM ARP Proxy DHCP Server/Relay VRRP 	
L2 Features	per group • Spanning Tree Protocol - 802.1D STP - 802.1w RSTP - 802.1s MSTP - 32 MSTP Instance	ack detection, TC Protect,	 Loopback Detection Flow Control 802.3x Flow Control Port Mirroring One-to-One Many-to-One Flow-Based Tx/Rx/Both LLDP, LLDP-MED 	
L2 Multicast	1024 IGMP groups IGMP Snooping - IGMP v1/v2/v3 Snooping - IGMP Fast Leave - MVR - IGMP Snooping Queries - Limited IP Multicast - Static Multicast Forward	er	 MLD Snooping MLD v1/v2 Snooping MLD Snooping Querier Fast Leave Limited IP Multicast Static Multicast Forwarding 	
VLAN	VLAN Group 4K VLAN Groups 802.1Q tag VLAN MAC VLAN Protocol VLAN		VLAN VPN (QinQ)GVRPPrivate VLAN	
QoS	Class of Service - Port Priority - 802.1p CoS/DSCP priority - 8 Priority Queues - Queue Schedule Mode Bandwidth Control - Port/Flow based Rating		 DiffServ DiffServ Class DiffServ Policy DiffServ Service Auto-VoIP Voice VLAN 	



- Storm Control

Software F	eatures	
ACL	Supports up to 3328 entries MAC ACL Source MAC Destination MAC VLAN ID User Priority EtherType Standard IP ACL Source IP Destination IP Time based ACL	• Extended IP ACL - Source IP - Destination IP - Fragment - IP Protocol - TCP Flag - TCP/UDP Port - DSCP/IP TOS
Security	 AAA DHCP Snooping IP-MAC-Port Binding - Up to 32768 entries ARP Inspection - Up to 32768 entries IP Source Guard - Up to 1020 entries Static/Dynamic Port Security - Up to 64 MAC addresses per port Broadcast/Multicast/Unicast Storm Control - kbps/ratio/pps control mode IP/Port/MAC based access control DoS Defend 	802.1X Port based authentication MAC(Host) based authentication Guest VLAN Support Radius authentication and accountability Port Isolation MAC Filtering Secure web management through HTTPS with SSLv3/TLS1.0 Secure Command Line Interface(CLI) management with SSHv1/SSHv2
Management	Web-based GUI Command Line Interface(CLI) through console port, telnet SNMPv1/v2c/v3 SNMP Trap/Inform RMON (1,2,3,9 groups) DHCP Option82	 CPU Monitoring Cable Diagnostics Access Control SNTP System Log Dual Image IPv6 Management PPPoE Circuit ID HTTP/TFTP File Transfer
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

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