ComX Computers
Product Specification Sheet

TP-SX3016F

TP-Link JetStream 16-port 10GE SFP+ L2+ managed Switch

Product Overview

TP-Link JetStream 16-port 10GE SFP+ L2+ managed Switch, 16x 10GE SFP+ slots, 1x RJ45 Console Port, 1x Micro-USB Console Port, 1x fan, Rack mountable, 320 Gbps switching capacity



Specifications

Features:

- 16x Full 10GE SFP+ Slots: Lightning-fast full 10 Gbps SFP+ slots provide high-bandwidth aggregation connectivity and non-blocking 320 Gbps switching capacity.
- Abundant L2 and L2+ Features: Supports a complete lineup of L2 and L2+ features including Static Routing, enterprise-level QoS, IGMP Snooping, and more.
- Robust Security Strategies: Helps protect LAN area investment with integrated IP-MAC-Port Binding, ACL, Port Security, 802.1X Authentication, and more.
- Dual Redundant Power Supplies: Two power supplies backing each other up make it an ideal choice for reliable networking architecture.
- Centralized Cloud Management: Integrates into Omada SDN for cloud access and remote management.
- Standalone Management: Web, CLI (Console Port, Telnet, SSH), SNMP, RMON, and Dual Image bring powerful management capabilities.

Full Fiber Switch with Lightning-Fast 10G
Build and expand your lightning-fast network with TP-Link TL-SX3016F - a fully managed switch with full 16-port 10G fiber ports and 320 Gbps switching capacity. Ideal for small, medium, and large business networks, it meets and surpasses the needs for high-speed, reliable, and safe enterprise networks.

- 1x RJ45 Console Port
- 1x Micro-USB Console Port
- 16x 10G SFP+ Ports

Easily Build a Whole 10G Network

- Unlock the Real WiFi 6 Switch with 10G or 2.5G PoE Ports
- Connecting PoE Devices, Hassle-FreePoE Switch with 10G Uplink
- Lightning-Fast Wired ConnectionsSwitch with 10G Ports

Seamless Integration to Omada Cloud SDN

Omadas Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and routers, providing 100% centralized cloud management. Omada creates a highly scalable network- all controlled from a single interface. Seamless wireless and wired connections are provided, ideal for use in hospitality, education, retail, offices, and more.

- Multi-Site Cloud Management
- Zero-Touch Provisioning (ZTP)
- Intelligent Monitoring

Dual Redundant Power Supplies
Two power supplies backing each other up make it an ideal choice for reliable networking architecture.

Specifications:

HARDWARE FEATURES	
Interface	16x 10GE SFP+ Slots
	1x RJ45 Console Port
	1x Micro-USB Console Port
Fan Quantity	1
Power Supply	100-240 V AC~50/60 Hz
Dimensions (W x D x H)	17.3 x 8.7 x 1.7 in (440 x 220 x 44 mm)
Mounting	Rack Mountable
Max Power Consumption	32.74 W (220 V / 50 Hz)
Max Heat Dissipation	111.71 BTU/hr (220 V / 50 Hz)
PERFORMANCE	
Switching Capacity	320 Gbps
Packet Forwarding Rate	238.08 Mpps
MAC Address Table	32 K
Jumbo Frame	9 KB
SOFTWARE FEATURES	

Quality of Service	8 priority queues
	802.1p CoS/DSCP priority
	Queue scheduling
	- SP (Strict Priority)
	- WRR (Weighted Round Robin)
	- SP+WRR
	Bandwidth Control
	- Port/Flow based Rating Limiting
	Smoother Performance
	Action for Flows
	- Mirror (to supported interface)
	- Redirect (to supported interface)
	- Rate Limit
	- QoS Remark
L2 and L2+ Features	Link Aggregation
	- static link aggregation
	- 802.3ad LACP
	- Up to 8 aggregation groups, containing 8 ports per group
	Spanning Tree Protocol
	- 802.1d STP
	- 802.1w RSTP
	- 802.1s MSTP
	- STP Security: TC Protect, BPDU Filter, Root Protect
	Loopback Detection
	- Port based
	- VLAN based
	Flow Control
	- 802.3x Flow Control
	- HOL Blocking Prevention
	Mirroring
	- Port Mirroring
	- CPU Mirroring
	- One-to-One
	- Many-to-One
	- Tx/Rx/Both

L2 Multicast	IGMP Snooping
	- IGMP v1/v2/v3 Snooping
	- Fast Leave
	- IGMP Snooping Querier
	- IGMP Authentication
	IGMP Authentication
	MLD Snooping
	- MLD v1/v2 Snooping
	- Fast Leave
	- MLD Snooping Querier
	- Static Group Config
	- Limited IP Multicast
	MVR
	Multicast Filtering: 256 profiles and 16 entries per profile
VLAN	VLAN Group
	- Max 4K VLAN Groups
	802.1Q Tagged VLAN
	MAC VLAN: 30 Entries
	Protocol VLAN: Protocol Template 16, Protocol VLAN 16
	Private VLAN
	GVRP
	VLAN VPN (QinQ)
	- Port-Based QinQ
	- Selective QinQ
	Voice VLAN

Access Control List	Time-based ACL
	MAC ACL
	- Source MAC
	- Destination MAC
	- VLAN ID
	- User Priority
	- Ether Type
	IP ACL
	-Source IP
	- Destination IP
	- Fragment
	- IP Protocol
	- TCP Flag
	- TCP/UDP Port
	- DSCP/IP TOS
	- User Priority
	Combined ACL
	Packet Content ACL
	IPv6 ACL
	Policy
	- Mirroring
	- Redirect
	- Rate Limit
	- QoS Remark
	ACL apply to Port/VLAN

Security	IP-MAC-Port Binding
	- 512 Entries
	- DHCP Snooping
	- ARP Inspection
	- IPv4 Source Guard: 100 Entries
	IPv6-MAC-Port Binding
	- 512 Entries
	- DHCPv6 Snooping
	- ND Detection
	- IPv6 Source Guard: 100 Entries
	DoS Defend
	Static/Dynamic Port Security
	- Up to 64 MAC addresses per port
	Broadcast/Multicast/Unicast Storm Control
	- kbps/ratio control mode
	802.1X
	- Port base authentication
	- Mac base authentication
	- VLAN Assignment
	- MAB
	- Guest VLAN
	- Support Radius authentication andaccountability
	AAA (including TACACS+)
	Port Isolation
	Secure web management through HTTPS with SSLv3/TLS 1.2
	Secure Command Line Interface (CLI) management with SSHv1/SSHv2
	IP/Port/MAC based access control

IPv6	IPv6 Dual IPv4/IPv6
	Multicast Listener Discovery (MLD) Snooping
	IPv6 ACL
	IPv6 Interface
	Static IPv6 Routing
	IPv6 neighbor discovery (ND)
	Path maximum transmission unit (MTU) discovery
	Internet Control Message Protocol (ICMP) version 6
	TCPv6/UDPv6
	IPv6 applications
	- DHCPv6 Client
	- Ping6
	- Tracert6
	- Telnet (v6)
	- IPv6 SNMP
	- IPv6 SSH
	- IPv6 SSL
	- Http/Https
	- IPv6 TFTP
L3 Features	16 IPv4/IPv6 Interfaces
	Static Routing
	- 48 static routes
	Static ARP
	- 128 Static Entries
	Proxy ARP
	Gratuitous ARP
	DHCP Server
	DHCP Relay
	- DHCP Interface Relay
	- DHCP VLAN Relay
	DHCP L2 Relay

Management	Web-based GUI
	Command Line Interface (CLI) through the console port, telnet
	SNMP v1/v2c/v3
	- Trap/Inform
	- RMON (1,2,3,9 groups)
	SDM Template
	DHCP/BOOTP Client
	802.1ab LLDP/LLDP-MED
	DHCP AutoInstall
	Dual Image, Dual Configuration
	CPU Monitoring
	Cable Diagnostics
	EEE
	Password Recovery
	SNTP
	System Log
Advanced Features	Support Omada Hardware Controller (OC200/OC300), Software Controller, Cloud-Based Controller
	Automatic Device Discovery
	Batch Configuration
	Batch Firmware Upgrading
	Intelligent Network Monitoring
	Abnormal Event Warnings
	Unified Configuration
	Reboot Schedule
	ZTP (Zero-Touch Provisioning)
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 MIB

OTHERS	
Certification	CE, FCC, RoHS
Package Contents	TL-SX3016F Switch
	2x Power Cords
	Quick Installation Guide
	Rackmount Kit
	Rubber Feet
Environment	Operating Temperature: 0-45 degreesC (32-113 degreesF)
	Storage Temperature: -40-70 degreesC (-40-158 degreesF)
	Operating Humidity: 10-90% RH non-condensing
	Storage Humidity: 5-90% RH non-condensing

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TP-SX3016F-TP-Link-JetStream-16-port-10GE-SFP-L2-managed-Switch-p-262062.php

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