

TL-SX3016F

TP-LINK TL-SX3016F JETSTREAM 16-PORT 10GE SFP+ L2+ MANAGED SWITCH



Model	TL-SX3016F
Brend	Tp-Link
Port sayı	16 Port
Tip	Managed
Port sürəti	1000mb/s

Specification

HARDWARE FEATURES	
Interface	<ul style="list-style-type: none">• 16× 10GE SFP+ Slots• 1× RJ45 Console Port• 1× Micro-USB Console Port
Fan Quantity	1
Power Supply	100-240 V AC~50/60 Hz
Dimensions (W x D x H)	17.3 × 8.7 × 1.7 in (440 × 220 × 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
Packet Buffer Memory	24 Mbit
Jumbo Frame	9 KB

SOFTWARE FEATURES	
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Quality of Service	<ul style="list-style-type: none"> • 8 priority queues • 802.1p CoS/DSCP priority • Queue scheduling <ul style="list-style-type: none"> - SP (Strict Priority) - WRR (Weighted Round Robin) - SP+WRR • Bandwidth Control <ul style="list-style-type: none"> - Port/Flow based Rating Limiting • Smoother Performance • Action for Flows <ul style="list-style-type: none"> - Mirror (to supported interface) - Redirect (to supported interface) - Rate Limit - QoS Remark
L3 Features	<ul style="list-style-type: none"> • 128 IPv4/IPv6 Interfaces • Static Routing <ul style="list-style-type: none"> - 48 static routes • Static ARP <ul style="list-style-type: none"> - 128 Static Entries • Proxy ARP • Gratuitous ARP • DHCP Server • DHCP Relay <ul style="list-style-type: none"> - DHCP Interface Relay - DHCP VLAN Relay • DHCP L2 Relay
L2 and L2+ Features	<ul style="list-style-type: none"> • Link Aggregation <ul style="list-style-type: none"> - static link aggregation - 802.3ad LACP - Up to 8 aggregation groups, containing 8 ports per group • Spanning Tree Protocol <ul style="list-style-type: none"> - 802.1d STP - 802.1w RSTP - 802.1s MSTP - STP Security: TC Protect, BPDU Filter, Root Protect • Loopback Detection <ul style="list-style-type: none"> - Port based - VLAN based • Flow Control <ul style="list-style-type: none"> - 802.3x Flow Control • HOL Blocking Prevention • Mirroring <ul style="list-style-type: none"> - Port Mirroring - CPU Mirroring - One-to-One - Many-to-One - Tx/Rx/Both
L2 Multicast	<ul style="list-style-type: none"> • IGMP Snooping <ul style="list-style-type: none"> - IGMP v1/v2/v3 Snooping - Fast Leave - IGMP Snooping Querier - IGMP Authentication • MLD Snooping <ul style="list-style-type: none"> - MLD v1/v2 Snooping - Fast Leave - MLD Snooping Querier - Static Group Config - Limited IP Multicast • MVR <ul style="list-style-type: none"> - Multicast Filtering: 256 profiles and 16 entries per profile
Advanced Features	<ul style="list-style-type: none"> • Automatic Device Discovery • Batch Configuration • Batch Firmware Upgrading • Intelligent Network Monitoring • Abnormal Event Warnings • Unified Configuration • Reboot Schedule

VLAN	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 and accountability • 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	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> - DHCPv6 Client - Ping6 - Tracert6 - Telnet (v6) - IPv6 SNMP - IPv6 SSH - IPv6 SSL - Http/Https - IPv6 TFTP
MIBs	<ul style="list-style-type: none"> • 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

MANAGEMENT	
Omada App	Yes. Requiring the use of OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller.
Centralized Management	<ul style="list-style-type: none"> • Omada Cloud-Based Controller • Omada Hardware Controller (OC300) • Omada Hardware Controller (OC200) • Omada Software Controller
Cloud Access	Yes. Requiring the use of OC300, OC200, Omada Cloud-Based Controller, or Omada Software Controller.
Zero-Touch Provisioning	Yes. Requiring the use of Omada Cloud-Based Controller.
Management Features	<ul style="list-style-type: none"> • Web-based GUI • Command Line Interface (CLI) through the console port, telnet • SNMP v1/v2c/v3 <ul style="list-style-type: none"> - 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

OTHERS	
Certification	CE, FCC, RoHS
Package Contents	<ul style="list-style-type: none"> • TL-SX3016F Switch • 2× Power Cords • Quick Installation Guide • Rackmount Kit • Rubber Feet
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux.

OTHERS

Environment

- **Operating Temperature:** 0–45 °C (32–113 °F);
- **Storage Temperature:** -40–70 °C (-40–158 °F)
- **Operating Humidity:** 10–90% RH non-condensing
- **Storage Humidity:** 5–90% RH non-condensing