

# 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"> <li>• 16× 10GE SFP+ Slots</li> <li>• 1× RJ45 Console Port</li> <li>• 1× Micro-USB Console Port</li> </ul>
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	
Quality of Service	<ul style="list-style-type: none"> <li>• 8 priority queues</li> <li>• 802.1p CoS/DSCP priority</li> <li>• Queue scheduling <ul style="list-style-type: none"> <li>- SP (Strict Priority)</li> <li>- WRR (Weighted Round Robin)</li> <li>- SP+WRR</li> </ul> </li> <li>• Bandwidth Control</li> <li>- Port/Flow based Rating Limiting</li> <li>• Smoother Performance</li> <li>• Action for Flows <ul style="list-style-type: none"> <li>- Mirror (to supported interface)</li> <li>- Redirect (to supported interface)</li> <li>- Rate Limit</li> <li>- QoS Remark</li> </ul> </li> </ul>

SOFTWARE FEATURES	
L3 Features	<ul style="list-style-type: none"> <li>• 128 IPv4/IPv6 Interfaces</li> <li>• Static Routing               <ul style="list-style-type: none"> <li>- 48 static routes</li> </ul> </li> <li>• Static ARP               <ul style="list-style-type: none"> <li>- 128 Static Entries</li> </ul> </li> <li>• Proxy ARP</li> <li>• Gratuitous ARP</li> <li>• DHCP Server</li> <li>• DHCP Relay               <ul style="list-style-type: none"> <li>- DHCP Interface Relay</li> <li>- DHCP VLAN Relay</li> </ul> </li> <li>• DHCP L2 Relay</li> </ul>
L2 and L2+ Features	<ul style="list-style-type: none"> <li>• Link Aggregation               <ul style="list-style-type: none"> <li>- static link aggregation</li> <li>- 802.3ad LACP</li> <li>- Up to 8 aggregation groups, containing 8 ports per group</li> </ul> </li> <li>• Spanning Tree Protocol               <ul style="list-style-type: none"> <li>- 802.1d STP</li> <li>- 802.1w RSTP</li> <li>- 802.1s MSTP</li> <li>- STP Security: TC Protect, BPDU Filter, Root Protect</li> </ul> </li> <li>• Loopback Detection               <ul style="list-style-type: none"> <li>- Port based</li> <li>- VLAN based</li> </ul> </li> <li>• Flow Control               <ul style="list-style-type: none"> <li>- 802.3x Flow Control</li> </ul> </li> <li>• HOL Blocking Prevention</li> <li>• Mirroring               <ul style="list-style-type: none"> <li>- Port Mirroring</li> <li>- CPU Mirroring</li> <li>- One-to-One</li> <li>- Many-to-One</li> <li>- Tx/Rx/Both</li> </ul> </li> </ul>
L2 Multicast	<ul style="list-style-type: none"> <li>• IGMP Snooping               <ul style="list-style-type: none"> <li>- IGMP v1/v2/v3 Snooping</li> <li>- Fast Leave</li> <li>- IGMP Snooping Querier</li> </ul> </li> <li>• IGMP Authentication</li> <li>• IGMP Authentication</li> <li>• MLD Snooping               <ul style="list-style-type: none"> <li>- MLD v1/v2 Snooping</li> <li>- Fast Leave</li> <li>- MLD Snooping Querier</li> </ul> </li> <li>• Static Group Config</li> <li>• Limited IP Multicast</li> <li>• MVR</li> <li>• Multicast Filtering: 256 profiles and 16 entries per profile</li> </ul>
Advanced Features	<ul style="list-style-type: none"> <li>• Automatic Device Discovery</li> <li>• Batch Configuration</li> <li>• Batch Firmware Upgrading</li> <li>• Intelligent Network Monitoring</li> <li>• Abnormal Event Warnings</li> <li>• Unified Configuration</li> <li>• Reboot Schedule</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• VLAN Group               <ul style="list-style-type: none"> <li>- Max 4K VLAN Groups</li> </ul> </li> <li>• 802.1Q Tagged VLAN</li> <li>• MAC VLAN: 30 Entries</li> <li>• Protocol VLAN: Protocol Template 16, Protocol VLAN 16</li> <li>• Private VLAN</li> <li>• GVRP</li> <li>• VLAN VPN (QinQ)               <ul style="list-style-type: none"> <li>- Port-Based QinQ</li> <li>- Selective QinQ</li> </ul> </li> <li>• Voice VLAN</li> </ul>

## SOFTWARE FEATURES

Access Control List	<ul style="list-style-type: none"> <li>• Time-based ACL</li> <li>• MAC ACL <ul style="list-style-type: none"> <li>- Source MAC</li> <li>- Destination MAC</li> </ul> </li> <li>- VLAN ID</li> <li>- User Priority</li> <li>- Ether Type</li> <li>• IP ACL <ul style="list-style-type: none"> <li>-Source IP</li> <li>- Destination IP</li> <li>- Fragment</li> <li>- IP Protocol</li> <li>- TCP Flag</li> <li>- TCP/UDP Port</li> <li>- DSCP/IP TOS</li> <li>- User Priority</li> </ul> </li> <li>• Combined ACL</li> <li>• Packet Content ACL</li> <li>• IPv6 ACL <ul style="list-style-type: none"> <li>• Policy</li> <li>- Mirroring</li> <li>- Redirect</li> <li>- Rate Limit</li> <li>- QoS Remark</li> </ul> </li> <li>• ACL apply to Port/VLAN</li> </ul>
Security	<ul style="list-style-type: none"> <li>• IP-MAC-Port Binding <ul style="list-style-type: none"> <li>- 512 Entries</li> </ul> </li> <li>- DHCP Snooping</li> <li>- ARP Inspection</li> <li>- IPv4 Source Guard: 100 Entries</li> <li>• IPv6-MAC-Port Binding <ul style="list-style-type: none"> <li>- 512 Entries</li> </ul> </li> <li>- DHCPv6 Snooping</li> <li>- ND Detection</li> <li>- IPv6 Source Guard: 100 Entries</li> <li>• DoS Defend</li> <li>• Static/Dynamic Port Security <ul style="list-style-type: none"> <li>- Up to 64 MAC addresses per port</li> </ul> </li> <li>• Broadcast/Multicast/Unicast Storm Control <ul style="list-style-type: none"> <li>- kbps/ratio control mode</li> </ul> </li> <li>• 802.1X <ul style="list-style-type: none"> <li>- Port base authentication</li> <li>- Mac base authentication</li> </ul> </li> <li>- VLAN Assignment</li> <li>- MAB</li> <li>- Guest VLAN</li> <li>- Support Radius authentication and accountability</li> <li>• AAA (including TACACS+)</li> <li>• Port Isolation</li> <li>• Secure web management through HTTPS with SSLv3/TLS 1.2</li> <li>• Secure Command Line Interface (CLI) management with SSHv1/SSHv2</li> <li>• IP/Port/MAC based access control</li> </ul>
IPv6	<ul style="list-style-type: none"> <li>• IPv6 Dual IPv4/IPv6</li> <li>• Multicast Listener Discovery (MLD) Snooping</li> <li>• IPv6 ACL</li> <li>• IPv6 Interface</li> <li>• Static IPv6 Routing</li> <li>• IPv6 neighbor discovery (ND)</li> <li>• Path maximum transmission unit (MTU) discovery</li> <li>• Internet Control Message Protocol (ICMP) version 6</li> <li>• TCPv6/UDPv6</li> <li>• IPv6 applications <ul style="list-style-type: none"> <li>- DHCPv6 Client</li> <li>- Ping6</li> <li>- Tracert6</li> <li>- Telnet (v6)</li> <li>- IPv6 SNMP</li> <li>- IPv6 SSH</li> <li>- IPv6 SSL</li> <li>- Http/Https</li> <li>- IPv6 TFTP</li> </ul> </li> </ul>

## SOFTWARE FEATURES

MIBs	<ul style="list-style-type: none"> <li>• MIB II (RFC1213)</li> <li>• Interface MIB (RFC2233)</li> <li>• Ethernet Interface MIB (RFC1643)</li> <li>• Bridge MIB (RFC1493)</li> <li>• P/Q-Bridge MIB (RFC2674)</li> <li>• RMON MIB (RFC2819)</li> <li>• RMON2 MIB (RFC2021)</li> <li>• Radius Accounting Client MIB (RFC2620)</li> <li>• Radius Authentication Client MIB (RFC2618)</li> <li>• Remote Ping, Traceroute MIB (RFC2925)</li> <li>• Support TP-Link private MIB</li> </ul>
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## 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"> <li>• Omada Cloud-Based Controller</li> <li>• Omada Hardware Controller (OC300)</li> <li>• Omada Hardware Controller (OC200)</li> <li>• Omada Software Controller</li> </ul>
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"> <li>• Web-based GUI</li> <li>• Command Line Interface (CLI) through the console port, telnet</li> <li>• SNMP v1/v2c/v3</li> <li>- Trap/Inform</li> <li>- RMON (1,2,3,9 groups)</li> <li>• SDM Template</li> <li>• DHCP/BOOTP Client</li> <li>• 802.1ab LLDP/LLDP-MED</li> <li>• DHCP AutoInstall</li> <li>• Dual Image, Dual Configuration</li> <li>• CPU Monitoring</li> <li>• Cable Diagnostics</li> <li>• EEE</li> <li>• Password Recovery</li> <li>• SNTP</li> <li>• System Log</li> </ul>

## OTHERS

Certification	CE, FCC, RoHS
Package Contents	<ul style="list-style-type: none"> <li>• TL-SX3016F Switch</li> <li>• 2x Power Cords</li> <li>• Quick Installation Guide</li> <li>• Rackmount Kit</li> <li>• Rubber Feet</li> </ul>
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux.
Environment	<ul style="list-style-type: none"> <li>• Operating Temperature: 0–45 ℃ (32–113 ℉);</li> <li>• Storage Temperature: -40–70 ℃ (-40–158 ℉)</li> <li>• Operating Humidity: 10–90% RH non-condensing</li> <li>• Storage Humidity: 5–90% RH non-condensing</li> </ul>