

## HARDWARE FEATURES

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|--------------------------|--|
| 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                                  |
| Interface                | 24 10/100/1000Mbps RJ45 Ports<br>(Auto Negotiation/Auto MDI/MDIX)<br>4 combo gigabit SFP Slots<br>Up to 4 10G SFP+ Slots (2 fixed and 2 optional 10G SFP+ Slots)<br>1 Console Port                         |
| Network Media            | 10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)<br>100BASE-TX/1000Base-T: UTP category 5, 5e or above cable (maximum 100m)<br>100BASE-FX: MMF, SMF<br>1000BASE-X: MMF, SMF<br>10GBASE-LR<br>10GBASE-SR |
| Fan Quantity             | 4  |
| Physical Security Lock   | No   |
| Power Supply             | 100~240VAC, 50/60Hz  |
| Dimensions ( W x D x H ) | 17.32*13*1.73 in.(440*330*44 mm)   |
| Mounting                 | Rack Mountable   |
| Max Power Consumption    | 63W (220V/50Hz)  |
| Max Heat Dissipation     | 214.96 BTU/h   |

## PHYSICAL STACKING

|   |  |
|---|--|
| Installable SFP+ Transceivers and Direct Attach Copper (DAC) Cables | TXM431-SR<br>TXM431-LR<br>TXC432-CU1M<br>TXC432-CU3M |
| Max Number of Stacking Ports Installable                            | 2 SFP+   |
| No. of Units Per Stack  | 8  |
| Stacking Speed (Per Port)   | 20 Gbps (Full-Duplex)                                |

## PERFORMANCE

|                        |   |
|------------------------|---|
| Switching Capacity     | Up to 128Gbps for a standalone switch   |
| Bandwidth/Backplane    | Up to 320Gbps when 8 units in the stack |
| Packet Forwarding Rate | Up to 95.2Mpps for a standalone switch  |
| MAC Address Table      | 32K                                     |
| Packet Buffer Memory   | 16 Mbits                                |
| Jumbo Frame            | 10K Bytes                               |
| Number of Routes       | 12K                                     |

## PERFORMANCE

|                         |     |
|-------------------------|-----|
| Number of Static Routes | 256 |
| Number of IP Interfaces | 128 |

## SOFTWARE FEATURES

|                     |  |
|---------------------|--|
| Quality of Service  | Support 802.1p CoS/DSCP priority<br>Support 8 priority queues<br>Queue scheduling: SP, WRR, SP+WRR<br>Port/Flow- based Rate Limiting<br>Voice VLAN   |
| L2 Features         | IGMP Snooping V1/V2/V3<br>802.3ad LACP (Up to 32 aggregation groups, containing 8 ports per group)<br>Spanning Tree STP/RSTP/MSTP<br>BPDU Filtering/Guard<br>TC/Root Protect<br>Loop back detection<br>802.3x Flow Control   |
| VLAN                | Supports up to 4K VLANs simultaneously (out of 4K VLAN IDs)<br>IEEE 802.1Q VLAN/MAC VLAN/Protocol VLAN/QinQ/Private VLAN/GVRP  |
| Access Control List | L2 ~ L4 package filtering based on source and destination MAC address, IP address, TCP/UDP ports, 802.1p, DSCP, protocol and VLAN ID<br>Time Range Based   |
| Security            | IP-MAC-Port-VID Binding<br>IEEE 802.1X Port/MAC Based authentication, Radius, Guest VLAN<br>DoS Defence<br>Dynamic ARP inspection (DAI)<br>SSH v1/v2<br>SSL v2/v3/TLSv1<br>Port Security<br>Broadcast/Multicast/Unknown-unicast Storm Control  |
| L3 Features         | Wire-speed IP forwarding<br>Static Routing<br>RIP v1, v2<br>OSPF v2<br>ECMP<br>PIM-SM/PIM-DM/IGMP<br>DHCP Server/Relay<br>ARP Proxy<br>VRRP  |
| Management          | Web-based GUI and CLI management<br>SNMP v1/v2c/v3, compatible with public MIBs and TP-LINK private MIBs<br>RMON (1, 2, 3, 9 groups)<br>DHCP/BOOTP Client, DHCP Snooping, DHCP Option82<br>CPU Monitoring<br>Port Mirroring<br>Time Setting: SNTP<br>Integrated NDP/NTDP feature<br>Firmware Upgrade: TFTP & Web<br>System Diagnose: VCT<br>SYSLOG & Public MIBS<br>Dual Image |

## OTHERS

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| Certification | FCC, RoHS |
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## OTHERS

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| Package Contents    | Switch; Power Cord; Quick Installation Guide; Resource CD;<br>Rackmount Kit; Rubber Feet   |
| System Requirements | Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8,<br>MAC® OS, NetWare®, UNIX® or Linux.   |
| Environment         | Operating Temperature: 0°C~40°C (32°F~104°F)<br>Storage Temperature: -40°C~70°C (-40°F~158°F)<br>Operating Humidity: 10%~90% non-condensing<br>Storage Humidity: 5%~90% non-condensing |

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