



## EW-24PMPOE1G4C

### Make & Model

Make	eWit
Model	EW-24PMPOE1G4C

### HARDWARE FEATURES

Interface	<ul style="list-style-type: none"><li>• 24× 10/100/1000Mbps RJ45 Ports</li><li>• 4× Gigabit SFP Slots</li><li>• 1× RJ45 Console Port</li><li>• 1× Micro-USB Console Port</li></ul>
Fan Quantity	2
Power Supply	100-240 V AC~50/60 Hz
PoE+ Ports (RJ45)	<ul style="list-style-type: none"><li>• Standard: 802.3at/af compliant</li><li>• PoE+ Ports: 24 Ports, up to 30 W per port</li><li>• Power Budget: 384 W*</li></ul>
Mounting	Rack Mountable
Max Power Consumption	<ul style="list-style-type: none"><li>• V1: 463.8 W (110 V/60 Hz) (with 384 W PD connected); 31.0 W (110 V/60 Hz) (no PD connected)</li></ul>



	<ul style="list-style-type: none"><li>• V2: 465.8 W (110 V/60 Hz) (with 384 W PD connected); 34.4 W (110 V/60 Hz) (no PD connected)</li><li>• V3: 442.1 W (220 V/50 Hz) (with 384 W PD connected)</li><li>• V4: 460.8 W (110 V/60 Hz) (with 384 W PD connected)</li><li>• V5: 456.4 W (110 V/60 Hz) (with 384 W PD connected)</li></ul>
Max Heat Dissipation	<ul style="list-style-type: none"><li>• V1: 1582.49 BTU/h (110 V/60 Hz) (with 384 W PD connected); 105.78 BTU/h (110 V/60 Hz) (no PD connected)</li><li>• V2: 1589.31 BTU/hr (110 V/60 Hz) (with 384 W PD connected); 117.38 BTU/hr (110 V/60 Hz) (no PD connected)</li><li>• V3: 1508.67 BTU/hr (220 V/50 Hz) (with 384 W PD connected)</li><li>• V4: 1572.48 BTU/hr (110 V/60 Hz) (with 384 W PD connected)</li><li>• V5: 1557.47 BTU/hr (110 V/60 Hz) (with 384 W PD connected)</li></ul>

## PERFORMANCE

Switching Capacity	56 Gbps
Packet Forwarding Rate	41.66 Mpps
MAC Address Table	<ul style="list-style-type: none"><li>• V1: 8K</li><li>• V2 and above: 16K</li></ul>
Packet Buffer Memory	4.1 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></ul>
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	<ul style="list-style-type: none"> <li>• Bandwidth Control             <ul style="list-style-type: none"> <li>- Port/Flow based Rating Limiting</li> </ul> </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>
<p>L3 Features</p>	<ul style="list-style-type: none"> <li>• 16 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>• 316 ARP Entries (512 ARP Entries for TL-SG3428 V2.0 &amp; TL-SG3428MP V2.0)</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>
<p>L2 and L2+ Features</p>	<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 and up to 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, BPDU Protect, Root Protect, Loop 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> <li>- HOL Blocking Prevention</li> </ul> </li> <li>• Mirroring             <ul style="list-style-type: none"> <li>- Port Mirroring</li> <li>- CPU Mirroring</li> <li>- One-to-One</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>- Many-to-One</li> <li>- Tx/Rx/Both</li> </ul>
L2 Multicast	<ul style="list-style-type: none"> <li>• Supports 511 (IPv4, IPv6) IGMP groups</li> <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> <li>- IGMP Authentication</li> </ul> </li> <li>• IGMP Authentication</li> <li>• MVR</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>• 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 (12 Entries for TL-SG3428MP V1.0)</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>
Access Control List	<ul style="list-style-type: none"> <li>• Time-based ACL</li> <li>• MAC ACL</li> <li>- Source MAC</li> </ul>



	<ul style="list-style-type: none"> <li>- Destination MAC</li> <li>- VLAN ID</li> <li>- User Priority</li> <li>- Ether Type</li> <li>• IP ACL</li> <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> <li>• Combined ACL</li> <li>• Packet Content ACL</li> <li>• IPv6 ACL</li> <li>• Policy</li> <li>- Mirroring</li> <li>- Redirect</li> <li>- Rate Limit</li> <li>- QoS Remark</li> <li>• ACL apply to Port/VLAN</li> </ul>
<p>Security</p>	<ul style="list-style-type: none"> <li>• IP-MAC-Port Binding</li> <li>- DHCP Snooping</li> <li>- ARP Inspection</li> <li>- IPv4 Source Guard</li> <li>• IPv6-MAC-Port Binding</li> <li>- DHCPv6 Snooping</li> <li>- ND Detection</li> <li>- IPv6 Source Guard</li> <li>• DoS Defend</li> <li>• Static/Dynamic Port Security</li> <li>- Up to 64 MAC addresses per port</li> <li>• Broadcast/Multicast/Unicast Storm Control</li> <li>- kbps/ratio/pps control mode</li> <li>• IP/Port/MAC based access control</li> <li>• 802.1X</li> <li>- Port based authentication</li> <li>- Mac based authentication</li> <li>- VLAN Assignment</li> <li>- MAB</li> <li>- Guest VLAN</li> <li>- Support Radius authentication and accountability</li> <li>• AAA (including TACACS+)</li> </ul>

	<ul style="list-style-type: none"> <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> </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</li> <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>
MIBs	<ul style="list-style-type: none"> <li>• MIB II (RFC1213)</li> <li>• Bridge MIB (RFC1493)</li> <li>• P/Q-Bridge MIB (RFC2674)</li> <li>• Radius Accounting Client MIB (RFC2620)</li> <li>• Radius Authentication Client MIB (RFC2618)</li> <li>• Remote Ping, Traceroute MIB (RFC2925)</li> <li>• RMON MIB(RFC1757, rmon 1,2,3,9)</li> </ul>

## MANAGEMENT

Management Features	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• Command Line Interface (CLI) through console port, telnet</li> <li>• SNMPv1/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> </ul>
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	<ul style="list-style-type: none"> <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>
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**OTHERS**

Environment	<ul style="list-style-type: none"> <li>• Operating Temperature: 0–45 °C (32–113 °F);</li> <li>• Storage Temperature: -40–70 °C (-40–158 °F)</li> <li>• Operating Humidity: 10–90% RH non-condensing</li> <li>• Storage Humidity: 5–90% RH non-condensing</li> </ul>
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7/8/10/11, MAC® OS, NetWare®, UNIX® or Linux.
Certification	CE, FCC, RoHS, ISO