# EW-8PMPOE1G2

Make & Model

| Make | eWit |
|---|---|
| Model | EW-8PMPOE1G2 |

## *HARDWARE FEATURES*

| Standards and Protocols | IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p |
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| Interface | • 8× 10/100/1000 Mbps RJ45 Ports, all supporting PoE+ (Auto-Negotiation/Auto MDI/MDIX)<br>• 2× 100/1000 Mbps SFP Slots |
| Network Media | • 10BASE-T: UTP/STP category 3, 4, 5 cable (maximum 100m)<br>• 100BASE-TX/1000Base-T: UTP/STP category 5, 5e or above cable (maximum 100m)<br>• 100BASE-FX: MMF, SMF<br>• 1000BASE-X: MMF, SMF |
| Fan Quantity | 1 |

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| Physical Security Lock | Yes |
| Power Supply | 100-240V AC, 50/60Hz |
| PoE Ports (RJ45) | • Standard: 802.3at/af compliant<br>• PoE+ Ports: 8 Ports<br>• PoE Power Budget: 150 W* |
| Mounting | Rackmount/Desktop |
| Max Power Consumption | • V1: 173.9 W (110 V/60 Hz) (with 150 W PD connected); 12.2 W (110 V/60 Hz) (no PD connected)<br>• V2: 169.5 W (220 V/50Hz) (with 150 W PD connected)<br>• V3: 175.3 W (110 V/60Hz) (with 150 W PD connected)<br>• V4: 174.2 W (110V/60Hz) (with 150 W PD connected) |
| Max Heat Dissipation | • V1: 41.63 BTU/h (with no PD connected); 539.35 BTU/h (with 150 W PD connected)<br>• V2: 578.42 BTU/hr (220V/50 Hz) (with 150 W PDconnected)<br>• V3: 597.8 BTU/hr (110 V/60 Hz) (with 150 W PD connected)<br>• V4: 594.46 BTU/hr (110V/60Hz) (with 150 W PD connected) |

## PERFORMANCE

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| Switching Capacity | 20 Gbps |
| Packet Forwarding Rate | 14.9 Mpps |
| MAC Address Table | 8K |
| Packet Buffer Memory | 4.1 Mbit |
| Jumbo Frame | 9 KB |

## SOFTWARE FEATURES

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| Quality of Service | • 802.1p CoS/DSCP priority<br>• 8 priority queues<br>• Priority Schedule Mode<br>- SP (Strict Priority)<br>- WRR (Weighted Round Robin)<br>• Queue Weight Config<br>• Bandwidth Control<br>- Port/Flow based Rating Limit<br>• Smoother Performance<br>• Storm Control<br>- Multiple Control Modes(kbps/ratio)<br>- Broadcast/Multicast/Unknown-Unicast Control |
| L2 and L2+ Features | • DHCP Relay<br>- DHCP VLAN Relay<br>• DHCP L2 Relay<br>• Link Aggregation<br>- Static link aggregation<br>- 802.3ad LACP<br>- Up to 8 aggregation groups and up to 8 ports per group<br>• Spanning Tree Protocol<br>- 802.1D STP<br>- 802.1w RSTP<br>- 802.1s MSTP<br>- STP Security: TC Protect, BPDU Filter/Protect, Root Protect<br>• Loopback Detection<br>• Flow Control<br>- 802.3x Flow Control<br>• Mirroring<br>- Port Mirroring<br>- CPU Mirroring<br>- One-to-One<br>- Many-to-One<br>- Flow-Based<br>- Ingress/Egress/Both<br>• Device Link Detect Protocol (DLDP)<br>• 802.1ab LLDP/ LLDP-MED |
| L2 Multicast | • 511 IPv4, IPv6 shared multicast groups<br>• IGMP Snooping |

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| | - IGMP v1/v2/v3 Snooping<br>- Fast Leave<br>- IGMP Snooping Querier<br>- Static Group Config<br>• Multicast VLAN Registration (MVR)<br>• Multicast Filtering<br>• MLD Snooping<br>- MLD v1/v2 Snooping<br>- Fast Leave<br>- MLD Snooping Querier<br>- Static Group Config<br>• Limited IP Multicast (256 profiles and 16 entries per profile) |
| Advanced Features | • Automatic Device Discovery<br>• Batch Configuration<br>• Batch Firmware Upgrading<br>• Intelligent Network Monitoring<br>• Abnormal Event Warnings<br>• Unified Configuration<br>• Reboot Schedule |
| VLAN | • VLAN Group<br>- Max. 4K VLAN Groups<br>• 802.1Q tag VLAN<br>• MAC VLAN: 12 Entries<br>• Protocol VLAN<br>• GVRP<br>• Voice VLAN |
| Access Control List | • Support up to 230 entries<br>• Time-Range<br>- Time Slice<br>- Week Time-Range<br>- Absolute Time-Range<br>- Holiday<br>• Time-based ACL<br>• MAC ACL<br>- Source MAC<br>- Destination MAC<br>- VLAN ID<br>- User Priority<br>- Ether Type<br>• IP ACL<br>- Source IP |

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| | - Destination IP<br>- IP Protocol<br>- TCP Flag<br>- TCP/UDP Source Port<br>- TCP/UDP Destination Port<br>- DSCP/IP TOS<br>• IPv6 ACL<br>• Combined ACL<br>• Rule Operation<br>- Permit/Deny<br>• Policy Action<br>- Mirror<br>- Rate Limit<br>- Redirect<br>- QoS Remark<br>• ACL Rules Binding<br>- Port Binding<br>- VLAN Binding<br>• Actions for flows<br>- Mirror (to supported interface)<br>- Redirect (to supported interface)<br>- Rate Limit<br>- QoS Remark |
| Security | • AAA<br>• 802.1X<br>- Port based authentication<br>- MAC (Host) based authentication<br>- Authentication Method includes PAP/EAP-MD5<br>- MAB<br>- Guest VLAN<br>- Support Radius authentication and accountability<br>• IP/IPv6-MAC Binding<br>- 512 Binding Entries<br>- DHCP Snooping<br>- DHCPv6 Snooping<br>- ARP Inspection<br>- ND Detection<br>• IP Source Guard<br>- 253 Entries<br>- Source IP+Source MAC<br>• IPv6 Source Guard<br>- 183 Entries<br>- Source IPv6 Address+Source MAC |

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| | • DoS Defend<br>• Static/Dynamic/Permanent Port Security<br>- Up to 64 MAC addresses per port<br>• Broadcast/Multicast/Unicast Storm Control<br>- kbps/ratio control mode<br>• Port Isolation<br>• Secure web management through HTTPS with SSLv3/TLS 1.2<br>• Secure Command Line Interface (CLI) management with SSHv1/SSHv2<br>• IP/Port/MAC based access control |
| IPv6 | • IPv6 Static Routing and ACL<br>• IPv6 Dual IPv4/IPv6<br>• IPv6 Interface<br>• Multicast Listener Discovery (MLD) Snooping<br>• IPv6 neighbor discovery (ND)<br>• Path maximum transmission unit (MTU) discovery<br>• Internet Control Message Protocol (ICMP) version 6<br>• TCPv6/UDPv6<br>• IPv6 applications<br>- DHCPv6 Client<br>- Ping6<br>- Tracert6<br>- Telnet(v6)<br>- IPv6 SNMP<br>- IPv6 SSH<br>- IPv6 SSL<br>- Http/Https<br>- IPv6 TFTP |
| MIBs | • MIB II (RFC1213)<br>• Bridge MIB (RFC1493)<br>• P/Q-Bridge MIB (RFC2674)<br>• Radius Accounting Client MIB (RFC2620)<br>• Radius Authentication Client MIB (RFC2618)<br>• Remote Ping, Traceroute MIB (RFC2925)<br>• Support TP-Link private MIBs<br>• RMON MIB(RFC1757, rmon 1,2,3,9) |

## MANAGEMENT

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| Management Features | • Web-based GUI<br>• Command Line Interface (CLI) through telnet<br>• SNMPv1/v2c/v3<br>• SNMP Trap/Inform<br>• RMON (1,2,3,9 groups)<br>• SDM Template<br>• DHCP/BOOTP Client<br>• Dual Image, Dual Configuration<br>• CPU Monitoring<br>• Cable Diagnostics<br>• EEE<br>• SNTP<br>• System Log |

## OTHERS

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| Environment | • Web-based GUI<br>• Command Line Interface (CLI) through telnet<br>• SNMPv1/v2c/v3<br>• SNMP Trap/Inform<br>• RMON (1,2,3,9 groups)<br>• SDM Template<br>• DHCP/BOOTP Client<br>• Dual Image, Dual Configuration<br>• CPU Monitoring<br>• Cable Diagnostics<br>• EEE<br>• SNTP<br>• System Log |
| Certification | CE, FCC, RoHS, ISO |

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