



EW-24PMPOE10G4CR

Technical Specifications

Ports	24 x 10/100/1000BASE-T PoE ports 2 x 10GBASE-T ports 4 x 10G SFP+ ports
Redundant Power supply (from day one)	Supported
Console Port	10/100/1000BASE-T RJ-45 port for out-of-band CLI management
Management Port	10/100/1000BASE-T RJ-45 port for out-of-band IP management
Stacking Ports	4
Stacking Cost1	1
USB Ports	1 x USB 2.0 Type A port



Performance

Switching Capacity	168 Gbps
64-Byte Packet Forwarding Rate	125 Mpps
Packet Buffer Memory	2 MB

PoE

PoE Standards	IEEE 802.3af, IEEE 802.3at
PoE Power Budget	370 W 740 W (with RPS)

Physical

MTBF (Hours)	409,054 hours
Acoustics	Max: 53.4 dB Min: 40.4 dB
Heat Dissipation	1609.41 BTU/h (with 370 W PoE load) 3043.97 BTU/h (with 740 W PoE load) 170.98 BTU/h (PoE Off)
Power Input	100 to 240 VAC, 50 to 60 Hz
Max Power Consumption	471.67 W (with 370 W PoE load) 892.1 W (with 740 W PoE load) 36.28 W (PoE Off)
Weight	4.66 kg
Ventilation	3 x Smart fans
Operation Temperature	0 to 50 °C (32 to 122 °F)



Storage Temperature	-40 to 70 °C (-40 to 158 °F)
Operating Humidity	10% to 90% RH
Storage Humidity	5% to 90% RH

Software Features

Stackability	<ul style="list-style-type: none">• Physical stacking• Stacking Lite• Up to 9 units per stack or up to 12 stacking cost per stack1• Up to 80 Gbps stacking bandwidth• Ring/chain topology support
L2 Features	<ul style="list-style-type: none">• MAC Address Table: 16K (16,384) entries• Flow Control• 802.3x Flow Control• HOL Blocking Prevention• Jumbo Frames up to 9 Kbytes• 802.1AX/802.3ad Link Aggregation• Max. 32 groups per device, 8 ports per group• Spanning Tree Protocols• 802.1D STP• 802.1w RSTP• 802.1s MSTP• BPDU Filtering• Root Guard• Loop Guard• Loopback Detection• Port Mirroring• Supports One-to-One, Many-toOne• Supports Mirroring for both Tx/Rx• Supports 4 mirroring groups• Flow mirroring• Supports Mirroring for Tx/Rx• VLAN Mirroring• RSPAN• L2 Protocol Tunneling• Ethernet Ring Protection Switching (ERPS) v1/v2

<p>L2 Multicasting</p>	<ul style="list-style-type: none"> • IGMP Snooping • IGMP v1/v2/v3 Snooping • Supports 1024 IGMP groups • Host-based IGMP Snooping Fast Leave • Supports 128 static IGMP groups • Per VLAN IGMP Snooping • Data Driven Learning • IGMP Snooping Querier • Report Suppression • MLD Snooping • MLD v1/v2 Snooping • Support 1024 MLD Groups • Host-based MLD Snooping Fast Leave • Supports 64 static MLD groups • MLD Snooping Querier • Per VLAN MLD Snooping • MLD Proxy Reporting
<p>L3 Multicasting</p>	<ul style="list-style-type: none"> • IGMP v1/v2/v3 • PIM-SM for IPv4/2
<p>VLAN</p>	<ul style="list-style-type: none"> • VLAN Group • Max. 4K VLAN groups • Max. 1~4094 VIDs • GVRP • Max. 4K dynamic VLAN groups • Double VLAN (Q-in-Q) • Port-based Q-in-Q • Selective Q-in-Q • 802.1Q • Auto Surveillance VLAN • Port-based VLAN • 802.1v Protocol-based VLAN • Voice VLAN • MAC-based VLAN • VLAN translation • Multicast VLAN (ISM VLAN for IPv4/IPv6) • Asymmetric VLAN • Private VLAN • VLAN Trunking • Super VLAN

<p>QoS (Quality of Service)</p>	<ul style="list-style-type: none"> • 802.1p • 8 queues per port • Queue Handling • Strict Priority • Weighted Round Robin (WRR) • Strict + WRR • Weighted Deficit Round Robin (WDRR) • Policy Map • Remark 802.1p priority • Remark IP precedence/DSCP • Time based QoS • Congestion Control • Weighted Random Early Detection (WRED) • Simple Random Early Detection (SRED) • CoS based on <ul style="list-style-type: none"> • Switch port • Inner/Outer VID • Inner/Outer 802.1p Priority • MAC address • IP address • DSCP • Protocol type • TCP/UDP port • IPv6 traffic class • IPv6 flow label • Bandwidth Control <ul style="list-style-type: none"> • Port-based (ingress/egress, min. granularity 8 Kbps) • Flow-based (ingress/egress, min. granularity 8 Kbps) • Per queue bandwidth control (min. granularity 8 Kbps) • Three Color Marker • CIR/PIR minimum granularity: 8 kbps <ul style="list-style-type: none"> • trTCM • srTCM
<p>Access Control List (ACL)</p>	<ul style="list-style-type: none"> • ACL based on <ul style="list-style-type: none"> • 802.1p priority • VID • MAC address

	<ul style="list-style-type: none"> • Ether Type • LLC • VLAN • IP address • IP preference/ToS • DSCP mask • Protocol type • TCP/UDP port number • IPv6 Traffic Class • IPv6 Flow Label • Time-based ACL • CPU Interface Filtering • Max. ACL entries: • Ingress (hardware entries): 2048 • Egress (hardware entries): 512 • VLAN Access Map Numbers: 100
<p>Security</p>	<ul style="list-style-type: none"> • Port Security • Supports up to 64 MAC addresses per port • Broadcast/Multicast/Unicast Storm Control • D-Link Safeguard Engine • DHCP Server Screening • IP Source Guard • DHCP Snooping • IPv6 Snooping • Dynamic ARP Inspection (DAI) • DHCPv6 Guard • IPv6 Route Advertisement (RA) Guard • IPv6 ND Inspection • Duplicate Address Detection (DAD) • ARP Spoofing Prevention • Max. 64 entries • L3 Control Packet Filtering • Unicast Reverse Path Forwarding (URPF) • Traffic Segmentation • SSL • Supports TLS 1.0/1.1/1.2 • Supports IPv4/IPv6 access • SSH • Supports SSH v2 • Supports IPv4/IPv6 access • BPDU Attack Protection

	<ul style="list-style-type: none"> • DOS Attack Prevention
AAA	<ul style="list-style-type: none"> • Guest VLAN • 802.1X Authentication • Supports port/host-based access control • Identity-driven Policy Assignment • Dynamic VLAN Assignment • Privilege Level for Management Access • Trusted Host • RADIUS/TACACS+ Accounting • Web-based Access Control (WAC) • Supports port/host-based access control • Identity-driven Policy Assignment • Dynamic VLAN Assignment • Support IPv4 access • RADIUS and TACACS+ Authentication • Authentication Database Failover • Compound Authentication • MAC-based Access Control (MAC) • Supports port/host-based access control • Identity-driven Policy Assignment • Dynamic VLAN Assignment
Green Features	<ul style="list-style-type: none"> • Energy-Efficient Ethernet (EEE) • Power saving by link status • Power saving by cable length • Power saving by LED shut-off • Power saving by port shut-of • Power saving by system hibernation • Time-based PoE
Management	<ul style="list-style-type: none"> • Web-based GUI • Support IPv4/IPv6 acces • Support SSL (HTTPS) • Command Line Interface (CLI) • Telnet Server for IPv4/IPv6 • Telnet Client for IPv4/IPv6 • TFTP Client for IPv4/IPv6 • DNS Client for IPv4/IPv6 • Secure FTP Server for IPv4/IPv6

	<ul style="list-style-type: none"> • SNMP • Support v1/v2c/v3 • Support for IPv4/IPv6 access • SNMP Traps • System Log for IPv4/IPv6 Syslog Server • sFlow • Multiple images/ Multiple Configurations • RMON v1: <ul style="list-style-type: none"> • Supports 1, 2, 3, 9 groups • RMON v2: <ul style="list-style-type: none"> • Supports ProbeConfig group • LLDP/LLDP-MED • BootP/DHCP Client • DHCP Auto-Configuration • DHCP/DHCPv6 Local Relay • DHCP Relay Option 60/61/62/125 • Flash File System • PPPoE Circuit-ID Tag Insertion • D-Link Discover Protocol (DDP) • Debug command • Support IPv4/v6 SNTP Server • NTPv3/v4 • Password recovery/ encryption • DHCP server • Support for IPv4/IPv6 address assignment • Command Logging • SMTP • DHCPv6 Prefix Delegation (PD) • Ping/ Traceroute for IPv4/IPv6 • PD Alive (PoE Models Only)
<p>L3 Features</p>	<ul style="list-style-type: none"> • IPv4 ARP Entries 2048 • 512 Static ARP • IPv6 ND Entries:1024 • 128 Static ND Entries • IP Interface • Supports 16 interfaces • Gratuitous ARP • Loopback Interface • Proxy ARP • Support local ARP proxy • VRRP v2/v3

	<ul style="list-style-type: none"> • IP Helper
<p>L3 Routing</p>	<ul style="list-style-type: none"> • Supports 1024 hardware routing entries shared by IPv4/IPv6 • 1 entry consumed by each IPv4 route • 2 entries consumed by each IPv6 route • Supports up to 2048 hardware L3 forwarding entries shared by IPv4/IPv6 4 • 1 entry consumed by each IPv4 route • 2 entries consumed by each IPv6 route • Pv4/IPv6 Static Route • Max. 512 IPv4 entries • Max. 256 IPv6 entries • Support Equal-Cost Multi-Path Route (ECMP) • Pv4/IPv6 Default Route • PBR (Policy-based Route) • Null Route • Route Preference • Route Redistribution • RIPv1/v2/ng • OSPF • OSPF v2/v3 • OSPF passive interface • Stub/NSSA area • Support Equal-Cost Multi-Path Route (ECMP) • Text/MD5
<p>Certification</p>	<p>CE, FCC, RoHS, ISO</p>