EasyPoE® Plus Series

NEMA-Rated Indoor/Outdoor Enclosure w/ Integrated Hardened Managed PoE Switch

Overview

EtherWAN's EasyPoE® Pro Series is an integrated outdoor enclosure solution that combines a managed PoE switch, fiber splice tray, power supply, and optional accessories such as a 4G LTE router and RJ45 patch panel, all in a single, secure, NEMA-rated cabinet enclosure. Equipped with up to 12 gigabit PoE ports that provide from 15W up to 90W output per port using the latest IEEE 802.3bt technology and up to 4 SFP uplink ports, the EasyPoE® Pro series provides the power, time-saving design, and convenience to support a wide variety of applications including surveillance, LED lighting, and other networking applications.

EtherWAN — "When Connectivity is Crucial."

Highlights

NEMA-Rated Indoor/Outdoor Design for Non-Ventilated & Harsh Environments

Wide operating temperature -40 to 75°C (-40 to 167°F)
Fanless design
Weather-resistant, anti-corrosion, and vandal-resistant design

Time/Cost Saving Features

Integrated splicing tray for safe fiber connection storage
Wall and pole mounting options
Preinstalled bulkheads for cable connections and DIN-rail for additional devices/accessories

Smart PoE and Power

Futureproof with 90W/port and backward compatibility with all PoE protocols (60W/30W/15W)
PoE watchdog monitors status of connected PoE devices
Built-in power supply and surge protection

Support

Complimentary technical support
Free firmware upgrades and notifications

Software Features

Interface

CLI, Telnet, Web GUI, SSH

Management

SFTP (Secure FTP) support

Configuration backup

DHCP Server/Client

RMON (Remote Monitoring)

Port Mirroring

NTP (Network Time Protocol) synchronization

PoE Watchdog

LLDP (Link Layer Discovery Protocol)

IPv4/IPv6

SNMP v1/v2c/v3

Modbus TCP

Security

MAC Address filtering

Enable/Disable port

Storm Control and Detection

System logging

IEEE 802.1x LAN Access control

Remote authentication through RADIUS and TACACS+

Complex password support

Multi-user login and privileged access management

SSH for CLI and Telnet security

TLS and HTTPS for web security

ACL (Access Control List, up to 4096 entries)

Quality of Service (QoS)

Priority Queues: 8 queues per port

Traffic classification based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin), and strict mode

Rate Limiting (Ingress/Egress)

Layer 2 Features

Auto-negotiation for port speed and duplex
Flow Control
IEEE 802.3x full duplex mode
Back-pressure half duplex mode

Redundant Protocols
IEEE 802.1D STP
IEEE 802.1w RSTP
IEEE 802.1s MSTP
EtherWAN's Alpha-Ring network fault recovery

VLANs
IEEE 802.1Q Tag VLANs
GVRP
GMRP

Link Aggregation
Static Trunk (4 groups)
IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

Layer 3 Features

IP Packet Routing
Maximum number of routes in hardware: 64 entries
Static Routing
RIP v1/v2
OSPF v2

Routing Redundancy
VRRP

Software Properties and Performance

Switching Fabric
104Gbps

Forwarding Rate

75.29Mpps

Max VLANs

256 (4096 VID)

Jumbo Frame Size

9KB

MAC Table Size

16K

Packet Buffer Memory

12M bits

Switch Hardware Specifications

Interface

Ethernet

- 12 x 10/100/1000BASE-T(X)
- 4 x 1/10G SFP+

Console

- 1 x RJ45

Config Backup

- 1 x USB (Type A Connector)

Digital Input

- 2 x Digital Input
- Wet Contact: 0-3V for State 0; 13-30V for State 1; max input current: 8mA
- Dry Contact: Logic Level 1-Close to GND; Logic Level 0-Open

Alarm Contact

- 2 x Relay output, current capacity; 0.5A/48VDC

LED Indicators

- Per Unit: Power 1, Power 2
- Per Port: Link/Activity (Green)
- Per PoE Port: PoE Status (Orange)

Power

Input

- 46-57VDC Redundant (Terminal block)**
  ** 46-57VDC for IEEE 802.3af type 1, ≤15.4W PD devices.
  52-57VDC for IEEE 802.3at/bt type 2/3, 30W, 60W PD devices.
  54-57VDC for IEEE 802.3bt, type 4, 90W PD devices

Power Consumption

- 20W Max (without PoE)

PoE Power Output

- Ports 1-12: Up to 90W/port; Power Budget: 360W

Protection

Technology

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/100BASE-FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ad link aggregation control
- IEEE 802.3z 1000BASE-SX/1000BASE-LX
- IEEE 802.3x full duplex and flow control
- IEEE 802.1D STP
- IEEE 802.1p QoS
- IEEE 802.1Q Tag VLANs
- IEEE 802.1s MSTP
- IEEE 802.1w RSTP
- IEEE 802.1x PNAC
- IEEE 802.1ab LLDP
- IEEE 802.3az EEE
- IEEE 802.3af/at/bt Power over Ethernet
- IEEE 1588v2 PTP
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Forward/Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps
- 14,881,000pps for 10Gbps

Processing Type

- Store-and-forward
- Auto-negotiation
- Half-duplex back-pressure and full-duplex flow control
- Auto MDI/MDIX

System Memory

- 2Gb DDR3 SDRAM

Flash Storage

- 1Gb

Regulatory

ISO

- Manufactured in ISO-9001 facility

EMI

- FCC Part 15B Class A
- VCCI Class A
- EN 61000-6-4
- EN 61000-3-2
- EN 61000-3-3

EMS

- EN 61000-6-2
- EN 61000-6-2
- EN 61000-4-2 (ESD)
- EN 61000-4-3 (Radiated RFI)
- EN 61000-4-4 (Burst)
- EN 61000-4-5 (Surge)
- PoE Ports: line to earth 6kV Surge
- EN 61000-4-6 (Induced RFI)
- EN 61000-4-8 (Magnetic field)

Safety

- UL 61010

Traffic

- NEMA TS2

Rail

- EN 50121-4

Vibration

- IEC 60068-2-6

Shock

- IEC 60068-2-27

Free Fall

- FED STD 101C Method 5007.1

Physical

Casing Material

- Aluminum

IP Rating

- IP30

Dimensions

- 72 x 140 x 170mm (W x D x H)
  2.8" x 5.5" x 6.7"

Weight

- 1.5kg (3.3lbs)

Installation Type

- DIN-rail mounting

Environmental

Operating Temp.

- -40 to 75°C (-40 to 167°F)

Storage Temp.

- -45 to 85°C (-49 to 185°F)

Relative Humidity

- 5% to 95% (non-condensing)

MTBF

- 1,496,987 hours

Warranty

Length

- Limited Lifetime

Details

- www.etherwan.com/support/warranty-policy

What's Included

Device

- Ethernet switch

Cables

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- Ethernet switch

Cables

System Specifications

PoE Power Supply

Input
100-240VAC

Output
54VDC

IP Rating
IP67

Other Components

Fiber Management
Fiber splice tray

RJ45 Cable Management
Copper patch jacks (optional)

Alarm
Door sensor

Electrical
GFCI receptacle, Surge suppressor

Stainless Steel Enclosure System

Dimensions
15.75" x 15.75" x 7.87" (WHD)

Weight
45lbs when fully populated

Mounting Options
Wall/Panel (included), Pole (optional)

Input Voltage

100-240VAC

Optional LTE Cellular Router

Casing Material
Aluminum

SIM Support
Dual Sim

Cellular
Verizon/AT&T Support, LTE CAT6

Wireless
802.11 a/b/g/n/ac Dual Band

Ethernet
4 x 10/100/1000BASE-T RJ45

LTE Router Antenna (for Stainlesss Only)

Type
2 x LTE, 2 x WiFi, 1 x GPS

Gain
5dBi GPS, 3dBix2 LTE, 3dBix2 WiFi

Dimensions
143.6mm x 65mm

Weight
3.3Lbs

Polycarbonate Enclosure System

Dimensions
15.25" x 15.25" x 7.25" (WHD)

Weight
27lbs when fully populated

Mounting Options
Wall/Panel (included), Pole (optional)

Input Voltage

100-240VAC

Ordering Info

Polycarbonate Models

EASYPOE34X-XY	4-Port 10/100/1000BASE-T PoE + 2-Port 100/1000BASE SFP Managed Ethernet Switch
EASYPOE34E-XY	4-Port 10/100/1000BASE-T PoE + 2-Port 10/100/1000BASE-T Managed Ethernet Switch
EASYPOE24E-XY	2-Port 10/100/1000BASE-T PoE + 2-Port 100/1000BASE SFP Managed Ethernet Switch
EASYPOE22E-XY	2-Port 10/100/1000BASE-T PoE + 2-Port 10/100/1000BASE-T Managed Ethernet Switch

Stainless Steel Models

EASYPOE34XM-XY	4-Port 10/100/1000BASE-T PoE + 2-Port 100/1000BASE SFP Managed Ethernet Switch
EASYPOE34EM-XY	4-Port 10/100/1000BASE-T PoE + 2-Port 10/100/1000BASE-T Managed Ethernet Switch
EASYPOE24EM-XY	2-Port 10/100/1000BASE-T PoE + 2-Port 100/1000BASE SFP Managed Ethernet Switch
EASYPOE22EM-XY	2-Port 10/100/1000BASE-T PoE + 2-Port 10/100/1000BASE-T Managed Ethernet Switch

Cellular Options (X)

C	4G LTE-A Pro Router with WiFi, 4-Port 10/100/1000BASE-T RJ45, Puck Antenna (Only Included in Metal Enclosure)
Blank	No Router Option

RJ45 Patch Options (Y)

P	RJ45 Patch Panel with Keystone Jacks
Blank	No Patch Option

Accessories

EASYPOEPMT2	Pole Mounting Kit for EasyPoE Pro Polycarbonate Series
EASYPOEPMT2	Pole Mounting Kit for EasyPoE Pro Polycarbonate Series

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