

# EasyPoE® Pro Series

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

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## 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

Reverse Polarity 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

### 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](http://www.etherwan.com/support/warranty-policy)

## + What's Included

### Device

Ethernet switch

### Cables

1 Console cable

### Documentation

Quick install guide

## 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 Stainless 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

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

### + Stainless Steel Models

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

### + Cellular Options (X)

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

### + RJ45 Patch Options (Y)

<b>P</b>	RJ45 Patch Panel with Keystone Jacks
<b>Blank</b>	No Patch Option

### + Accessories

<b>EASYPOEPMT2</b>	Pole Mounting Kit for EasyPoE Pro Polycarbonate Series
<b>EASYPOEPMT2</b>	Pole Mounting Kit for EasyPoE Pro Polycarbonate Series



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