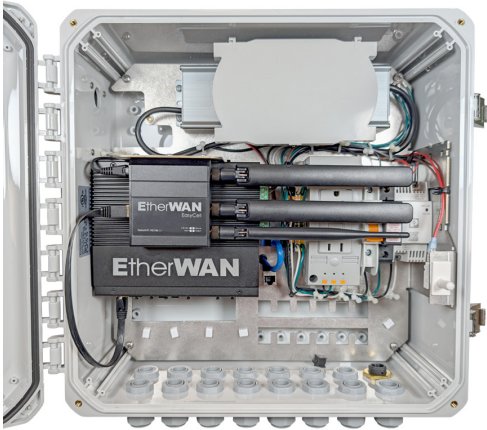


# EasyPoE® Pro Series

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)

### + 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

## + 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

## + 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

## + 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

**+ 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

### + Available Models

<b>EASYPOE34X-<del>XY</del></b>	NEMA-4X Enclosure, 12-Port 10/100/1000BASE-T PoE (90W) + 4-Port 1/10G SFP+ Managed Switch
<b>EASYPOE34E-<del>XY</del></b>	NEMA-4X Enclosure, 12-Port 10/100/1000BASE-T PoE (60W) + 4-Port 100/1000 SFP Managed Switch
<b>EASYPOE24E-<del>XY</del></b>	NEMA-4X Enclosure, 8-Port 10/100/1000BASE-T PoE (60W) + 4-Port 100/1000 SFP Managed Switch
<b>EASYPOE22E-<del>XY</del></b>	NEMA-4X Enclosure, 8-Port 10/100/1000BASE-T PoE (60W) + 2-Port 100/1000 SFP Managed Switch

### + Enclosure Material Options (X)

<b>P</b>	Polycarbonate Enclosure
<b>M</b>	Stainless Steel Enclosure

### + Cellular Options (YY)

<b>4G</b>	4G LTE Router with WiFi, Cloud Monitoring, Auto APN; Puck Antenna (Pre-installed with Metal Enclosure)
<b>NC</b>	No Cellular Option

### + Accessories

<b>EASYPOEPMT2</b>	Pole Mounting Kit for EasyPoE Pro Polycarbonate Series
<b>EASYPOEPMT3</b>	Pole Mounting Kit for EasyPoE Pro Metal Series
<b>EASYPOEPATCH</b>	Patch Panel Kit with RJ45 to RJ45 Keystone Jacks, RJ45 to Wire Keystone Jacks, and Ethernet Patch Cables

