

# **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 pet

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

### + 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 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)

С	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)

Р	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

