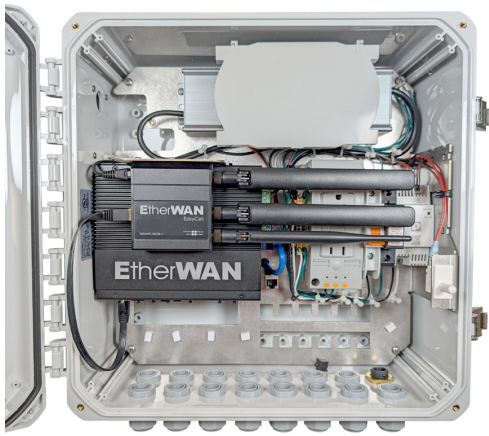


EasyPoE® Pro Series

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

+ What's Included

Device

Ethernet switch

Cables

1 Console cable

Documentation

Quick install guide

System Specifications

+ PoE Power Supply

Input

100-240VAC (Single Phase)

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 (Single Phase)

+ 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 (Single Phase)

Ordering Info

+ Available Models

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

+ Enclosure Material Options (X)

P	Polycarbonate Enclosure
M	Stainless Steel Enclosure

+ Cellular Options (YY)

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

+ Accessories

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



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