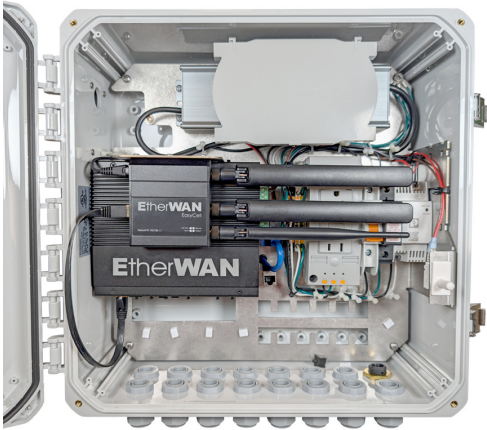


EasyPoE® Pro Series

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

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

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

