EasyPoE® Pro Series

NEMA-4X Indoor/Outdoor Network Enclosure Systems

EtherWAN

15W PoE   30W PoE   60W PoE

90W PoE   SFP Option   Wide Temperature °C
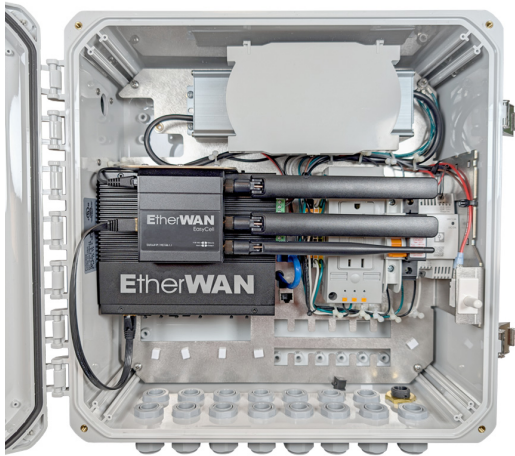
Product Highlights

❯ NEMA-4X Rated Enclosure System

- Wide operating temperature range (-40 to 158F)
- Fanless, fully integrated design with stainless steel and polycarbonate options
- Weather-resistant, anti-corrosion, and vandal-resistant design

❯ Time/Cost Saving Features

- Wall and pole mounting options*
- Pre-installed bulkheads for cable connections
- Built-in AC power receptacle for on-site maintenance use

❯ Additional Features

- Built-in fiber splice tray for fiber cable management
- Door sensor for security
- Optional RJ45 patch jacks for cable organization

❯ Integrated Hardened Managed PoE Switch

- 8 or 12 gigabit PoE port options, up to 90W/port option
- SFP ports for fiber connectivity with 10-gigabit option available
- Various management features for control and security such as PoE watchdog

❯ Replaceable Components

- Hardened PoE switch and optional cellular router
- Outdoor-rated, IP67 power supply
- AC receptacle and surge suppressor

❯ Integration

- Turnkey edge networking solution
- All components fully integrated
- Ready to deploy out of the box

Overview

EtherWAN's EasyPoE Pro Series is a fully integrated outdoor enclosure system for various networking applications that can be quickly deployed out of the box as a turnkey solution. Each unit includes components needed for powering cameras, network management, and data transmission, all within a sealed, weather-resistant NEMA-4X enclosure.

Integrated Equipment (Click to View Product Pages)

X-Series (EX78900X)	12-Port 10/100/1000BASE-T PoE (90W) + 4-Port 1/10G SFP+ Managed Switch
E-Series (EX78900E)	12-Port 10/100/1000BASE-T PoE (60W) + 4-Port 100/1000 SFP Managed Switch
EPOW-54-240 (Power Supply)	Hardened 54V 240W NEMA TS2 Power Supply (for E-Series)
EPOW-54-400 (Power Supply)	Hardened 54V 400W NEMA TS2 Power Supply (for X-Series)
EasyCell (Optional)	4G LTE Router with WiFi, Cloud Monitoring, and Auto APN

* Wall mounting kit included, Pole mounting kit sold separately

Switch Software Features

Interface ＋

CLI, Telnet, Web GUI, SSH

Management ＋

SFTP (Secured 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

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	Non-blocking, 104Gbps max
Forwarding Rate	75.29Mpps max
Max VLANs	256 (4096 VID)
Jumbo Frame Size	9KB
MAC Table Size	16K
Packet Buffer Memory	12M bits

Switch Hardware Specs

Interface +

Ethernet	8 or 12 x 10/100/1000BASE-T + 2 or 4 100/1000BASE SFP or 4 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
Forward/Filtering Rate	14,800pps 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)
Power Consumption	20W Max (without PoE)
PoE Power Output	Up to 60W/port or 90W/port Power Budget: 240W or 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	1,496,897 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 61000-4-2 (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

System Specifications

PoE Power Supply +

Input	100-240VAC
Output	54 VDC
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 (fully populated)
Mounting Options	Wall/Panel (included), Pole (optional)
Input Voltage	100-240VAC

Optional LTE Cellular Router +

Casing Material	Aluminum
SIM Support	Mini SIM slot
Cellular	Verizon, AT&T, T-Mobile - Auto APN
Wireless	802.11b/g/n
Management	Local Web UI (LAN), Remote Cloud

LTE Router Antenna (for stainless only) +

Type	Puck, Outdoor-Rated IP67
Connections	2 x LTE, 2 x WiFi, 1 x GPS
Gain	5dBi GPS, 3dBix2 LTE, 3dBix2 WiFi
Dimensions	143.6mm x 65mm (ØxH)
Weight	3.3lbs

Polycarbonate Enclosure System +

Dimensions	15.25" x 15.25" x 7.75" (WHD)
Weight	27lbs (fully populated)
Mounting Options	Wall/Panel (included), Pole (optional)
Input Voltage	100-240VAC

Ordering Information

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

* Wall mounting kit included

Enclosure Material Option (X)

P	Polycarbonate Enclosure
M	Stainless Steel Enclosure

Cellular Option (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