# EX26484

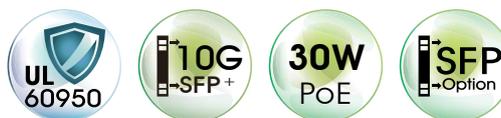## Managed 48-port Gigabit PoE and 4-port 1G/10G SFP+ Ethernet Switch



## Overview

EtherWAN's EX26484 provides a 52-port switching platform with support for IEEE 802.3at Power over Ethernet, high performance switching, and the advanced management features required for enterprise environments.

Equipped with 48 10/100/1000BASE-T PoE ports, in combination with 4 1G/10G SFP+ ports for connecting the switch to the core network, the EX26484 is feature-rich, with 10240 Bytes Jumbo Frame support, full wire speed Gigabit throughput, and QoS support.

The PoE ports provide up to 30 Watts per port, with a total power budget of 740 Watts, allowing the switch to operate a wide variety of Powered Devices with different bandwidth and power consumption requirements. These include IP cameras, wireless access points, IP phones, IP access control, PoE lights and other PoE devices.

Robust management features include port security, IGMP snooping, VLANs, GARP protocols, and LACP, as well as SNMP & RMON. An intuitive GUI for web management simplifies switch configuration, status monitoring, and maintenance effort.

EtherWAN – "When Connectivity is Crucial."

## Spotlight

- **High Port Density Managed PoE Switch**
  - 48 IEEE 802.3at gigabit PoE+ ports, ideal for 4K cameras and above
  - Intelligent PoE management and PD watchdog function help reduce on-site troubleshooting

- **740W PoE Power Budget**
  - IEEE 802.3at (PoE+) compliant, provides up to 30W output per port for PTZ cameras and other devices
  - Maximum PoE power budget of 740W provides sufficient power for all 48 connected devices

- **10GbE Connectivity**
  - Four 10G SFP+ for connecting the switch to the core network

# Software Features

## Management

- Interface
  - CLI, Telnet and Web Browser
  - SNMP v1/v2c/v3
- Firmware and configuration upgrade and backup via TFTP
- Supports DHCP Server/Client
- RMON (Remote monitoring)
- Port Mirroring: TX only, RX only, or both
- NTP (Network Time Protocol) time synchronization
- IEEE 802.1ab LLDP (Link Layer Discovery Protocol)
- IPv4/IPv6
- PoE Scheduling and PoE Watchdog

## Security

- MAC address filtering
- Enable/Disable port
- Storm Control (Both broadcast and multicast types)
- IEEE 802.1x LAN Access Control
- Remote authentication through RADIUS and TACACS+
- SSH for CLI and Telnet security
- SSL 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 mode
- Flow Control
  - IEEE 802.3x full duplex mode
  - Back-Pressure half duplex mode
- Redundant Protocol
  - IEEE 802.1D STP (Spanning Tree Protocol)
  - IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)
  - IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
  - ERPS (ITU-T G.8032)
- VLANs
  - IEEE 802.1Q Tag VLANs
  - Port-based VLAN
  - Q-in-Q (Double Tag) VLAN
  - Voice VLAN
  - GVRP (GARP VLAN Registration Protocol)
- Link Aggregation
  - Static Trunk
  - IEEE 802.3ad Link Aggregation Control Protocol
- IGMP Snooping
  - IGMP Snooping v1/v2/v3

## Layer 3 Features

- IPv4 Unicast: Static Routing
- IPv6 Unicast: Static Routing

## Performance

- 176 Gbps Switching Fabric
- MAC Address Table: 32K
- Jumbo Frame: 10240 Bytes

# Hardware Specifications

## Technology

### Standards
- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/100BASE-FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-SX/1000BASE-LX
- IEEE 802.3x Full duplex and flow control
- IEEE 802.1p QoS
- IEEE 802.1Q Tag VLANs
- IEEE 802.1w RSTP
- IEEE 802.1x Port-based Network Access Control

### Forward and Filtering Rate
- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps
- 14,880,952pps for 10Gbps

### Packet Buffer Memory
- 4M bits

### Processing Type
- Store-and-Forward
- Auto-Negotiation
- Half-duplex back-pressure and IEEE 802.3x full-duplex flow control
- Auto MDI/MDIX

### Address Table Size
- 32K

## Power

### Input
- 100-240VAC (AC Inlet)

### Power Consumption
- Device: Max. 68W (without PoE)
- PoE Power Budget: 740W

### PoE Power Output
- IEEE 802.3at: up to 30W/port, 50VDC, 600mA

## Mechanical

### Casing
- Metal Case

### Dimensions
- 442 x 375 x 44mm (W x D x H) (17.4" x 14.7" x 1.73")

### Weight
- 5.6Kg (12.3lbs.)

### Installation
- Rack mounting

## Interface

### Ethernet Port
- 10/100/1000BASE-T: 48 ports
- 1G/10G SFP+: 4 ports

### Console Port
- One RJ45 managed port

### LED Indicators
- Per Unit: System
- Per Port: Link/Activity/Speed, PoE

## Environment

### Operating Temperature
- 0 to 45°C (32 to 113°F)

### Storage Temperature
- -20 to 70°C (-4 to 158°F)

### Ambient Relative Humidity
- 10% to 90% (non-condensing)

## Regulatory Approvals

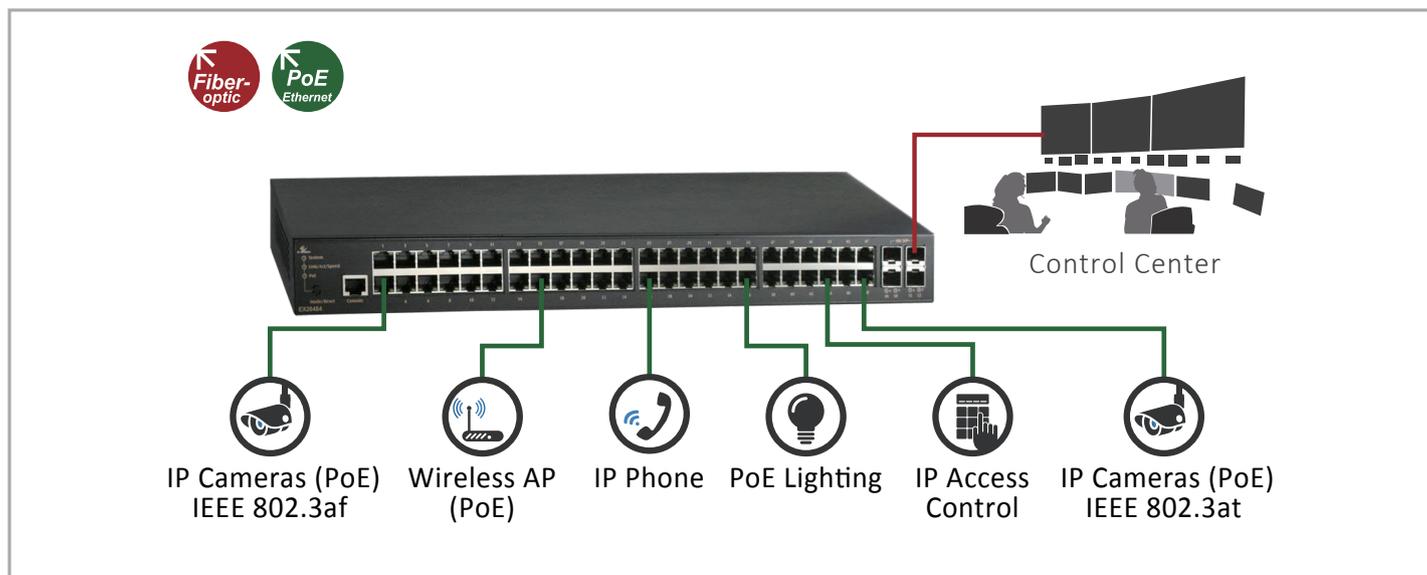### ISO
- Manufactured in an ISO 9001 facility
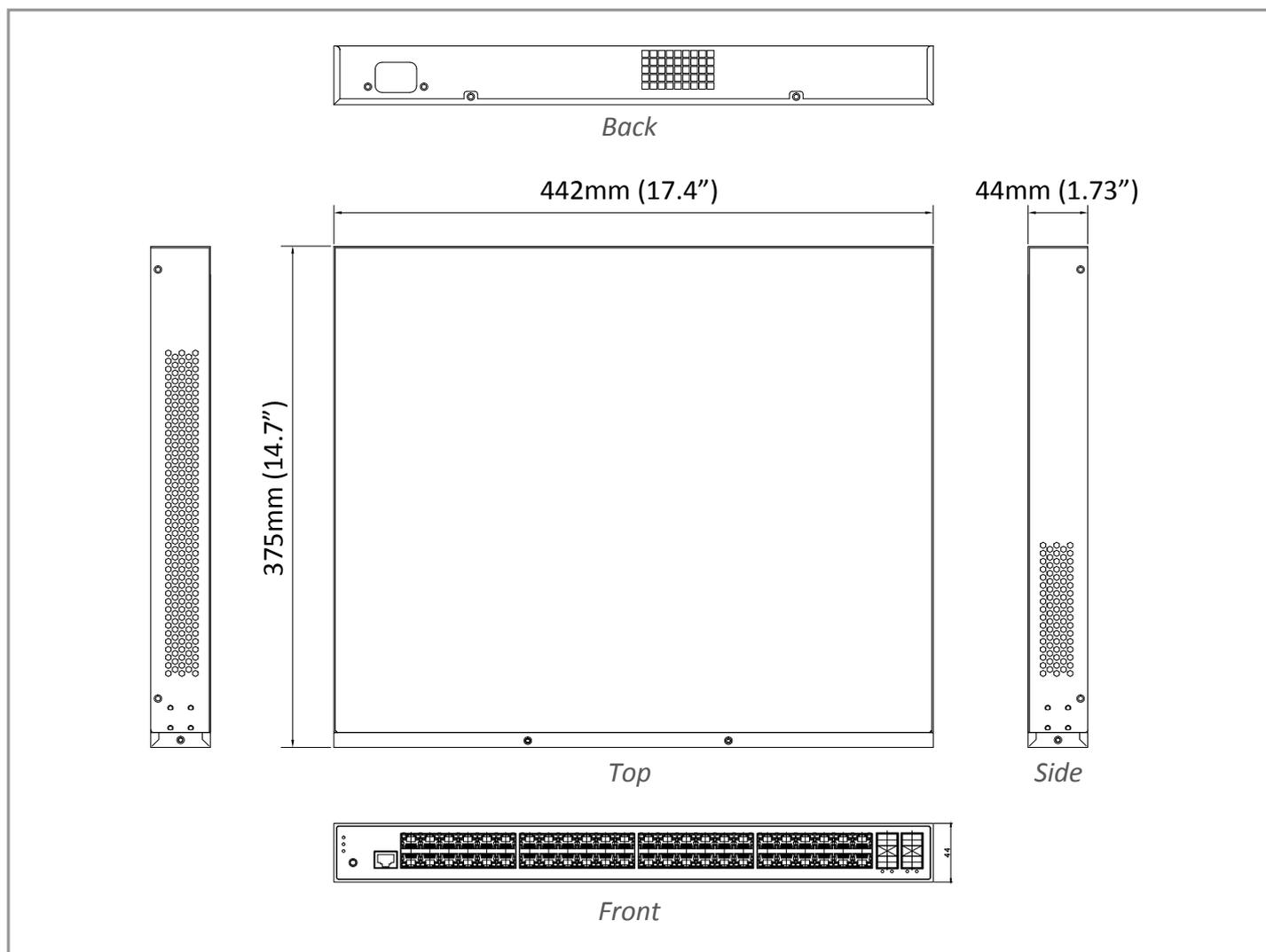
### Safety

**UL 60950**

### EMI

**FCC Part 15B Class A**

**CE Mark Class A**

## Application Diagram



Fiber-optic

PoE Ethernet

Control Center

IP Cameras (PoE)
IEEE 802.3af

Wireless AP
(PoE)

IP Phone

PoE Lighting

IP Access
Control

IP Cameras (PoE)
IEEE 802.3at

## Dimensions



*Back*

442mm (17.4")

44mm (1.73")

375mm (14.7")

*Top*

*Side*

44

*Front*

# Ordering Information

**Model**

| | |
|---|---|
| **EX26484** | Managed 48-port Gigabit PoE +4-port 1G/10G SFP+ Ethernet Switch |

*\* Rack mounting kit included.*