EX26182

Web-Managed 18-port Gigabit PoE Switch with 16 Gigabit + 2 SFP ports

Overview

EtherWAN's EX26182 provides a 18-port switching platform supporting IEEE802.3at Power over Ethernet, high performance switching with management features required for enterprise environments where sustained connectivity is crucial.

The EX26182 is equipped with 16 10/100/1000BASE-TX PoE ports, in combination with two Gigabit SFP options. The EX26182 is feature-rich with 10K Jumbo Frame support, full wire speed Gigabit throughput, QoS support, making the EX26182 Series a powerful network switch.

The IEEE802.3at PoE ports provide up to 30W/port with a total power budget of 190W, making the switch truly versatile for connecting with PoE Powered Devices (PD) with different bandwidth and power consumption requirements such as outdoor PTZ dome cameras, wireless access points, and way-side communication devices.

Users are able to access management features such as port security, IGMP snooping, VLANs, GARP protocols, LACP, and via web browser, SNMP and RMON interfaces.

EtherWAN — "When Connectivity is Crucial."

Spotlight

- **IEEE802.3at Power over Ethernet**
  ◦ Max. PoE output power per port up to 30W, with max. PoE power budget 190W

- **High Switching Performance**
  ◦ 36Gbps wire-speed switching performance across all 18 ports

- **Web-Managed Interface**
  ◦ Comprehensive QoS based on 802.1p, DSCP, and IP precedence
  ◦ High availability based on RSTP/MSTP/LACP
  ◦ Integrated port security with ACL and 802.1x

Software Features

Management

- Interface
  - CLI, Telnet and Web Browser
  - SNMP v1/v2c/v3
- Firmware and configuration upgrade and backup via TFTP
- LLDP / LLDP-MED
- Supports DHCP Client
- RMON (Remote monitoring): group 1, 2, 3, 9
- Port mirroring: TX/RX and both

Security

- MAC Address by port security
- Enable/disable port
- Storm control (broadcast and multicast types)
- IEEE802.1x LAN access control
- Remote authentication through RADIUS
- SSH for CLI and Telnet security
- SSL for web security
- ACL

Quality of Service (QoS)

- Priority Queues: 8 queues per port
- Traffic classification based on IEEE802.1p CoS, DSCP, WRR (Weighted round robin) and strict mode
- Rate Limiting (Ingress/Egress)

Layer 2 Features

- Auto-negotiation for port speed and duplex mode
- Flow Control
  - IEEE802.3x full duplex mode
  - Back-Pressure half duplex mode
- Redundant Protocol
  - IEEE802.1D Spanning Tree Protocol (STP)
  - IEEE802.1w Rapid Spanning Tree Protocol (RSTP)
  - IEEE802.1s Multiple Spanning Tree Protocol (MSTP)
- VLANs
  - Port-based VLANs
  - IEEE802.1Q Tag VLANs
- Link Aggregation
  - Static Trunk (13 groups, 12 ports per group)
  - IEEE802.3ad Link Aggregation Control Protocol
- IGMP Snooping
  - IGMP snooping v1/v2/v3
  - IGMP immediate leave

Performance

- Switching Capability: 36Gbps
- Packet Buffer Size: 512KB
- MAC Address Table: 8K
- Jumbo frame: 10K

Hardware Specifications

Technology

Standards
- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3x Full duplex and flow control
- IEEE802.1p, QoS
- IEEE802.1Q Tag VLANs
- IEEE802.1s MSTP
- IEEE802.1w RSTP
- IEEE802.1x Port-based Network Access Control
- IEEE802.3ad LACP
- IEEE802.3at Power over Ethernet

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

Packet Buffer Memory
- 10K

Packet Buffer
- 512KB

Address Table Size
- 8K MAC address

Power

Input
- 100 to 240VAC, 50/60Hz

Power Consumption
- Device: Max. 25W (without PoE)
- PoE power budget: 190W Max.

PoE Power Output
- IEEE802.3at: up to 30W/port, 50VDC, 600mA

Mechanical

Casing
- Metal Case

Dimensions
- 440mm(W) x 350mm(D) x 44mm(H)
  (17.3"(W) x 13.8"(D) x 1.73"(H))
- Standard 19" rack-mount size, one-unit-height

Weight
- 4.1 Kg (9.0 lbs)

Installation
- Rack mounting

Interface

Ethernet Port
- 10/100/1000BASE-T: 16 ports
- 100/1000BASE-X SFP 2 ports

LED Indicators
- Per Unit: PWR, DIAG
- Per Port: Link/ACT, PoE

Environment

Operating Temperature
- 0°C to 50°C (32°F to 122°F)

Storage Temperature
- -40°C to 70°C (-40°F to 158°F)

Ambient Relative Humidity
- 5% to 95% (non-condensing)

Regulatory Approvals
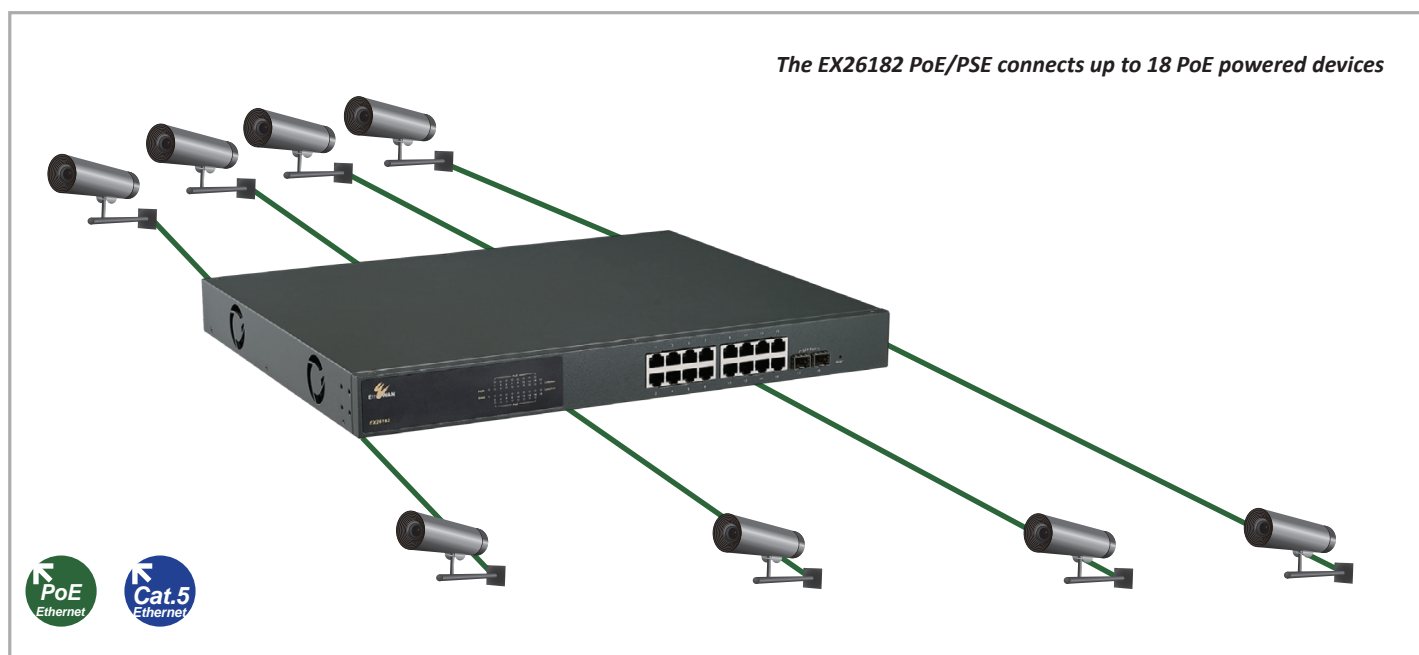
ISO
- Manufactured in an ISO9001 facility

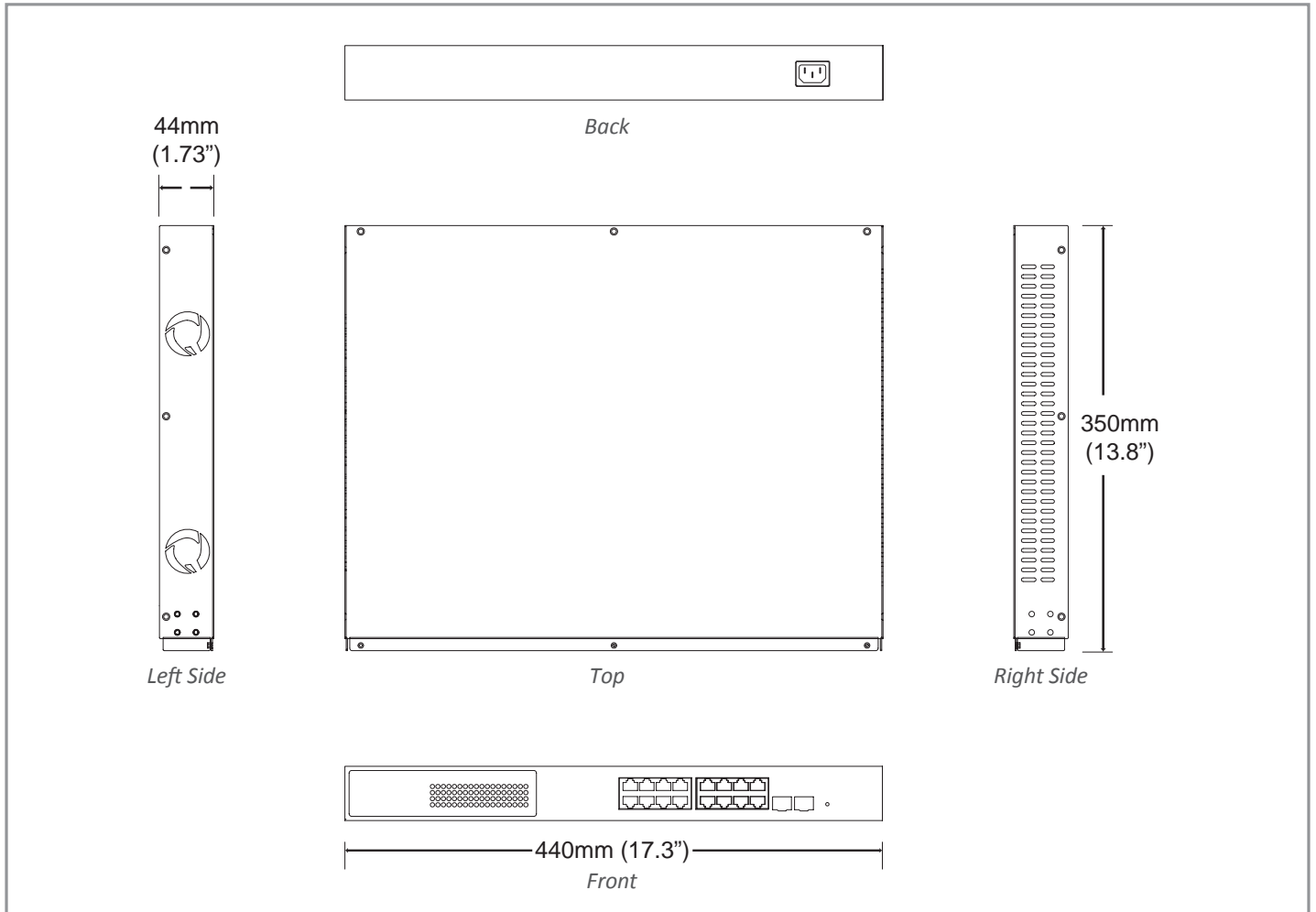### Safety

UL60950-1, EN60950-1, IEC60950-1

EMI

CE Mark Class A, FCC Part 15 ClassA

Application Diagram

The EX26182 PoE/PSE connects up to 18 PoE powered devices

Dimensions

Back

44mm
(1.73")

Left Side

Top

350mm
(13.8")

Right Side

440mm (17.3")

Front

Ordering Information

Model

EX26182	Web-Managed 18-port Gigabit PoE Switch 16 Gigabit + 2 SFP ports

* Rack mounting kit included