

# EX19164

Smart Managed 16-Port Gigabit PoE Ethernet Switch



## Highlights

### + Smart Management Features

- Easy to use web GUI
- VLAN configuration
- Comprehensive IP configuration and QoS

### + Power over Ethernet

- Total PoE power budget of 250W to deliver sufficient power to all connected PoE devices
- Overloading protection
- Power and data over a single cable with gigabit speed capable of handling cameras with 4K resolution and higher and other high bandwidth devices

## Overview

EtherWAN's EX19164 is a 16-port Gigabit Power over Ethernet switch with high performance and features suited for small-business and commercial environments. The EX19164 is equipped with 16 10/100/1000BASE-T(X) PoE+ ports with 4 being combo ports with 100/1000BASE SFP for fiber. With features such as an easy-to-use management GUI, QoS, VLANs and full wire speed throughput, port speeds up to gigabit for 4K cameras and higher, and a power budget of 250W, the EX19164 is the perfect solution for security networks.

EtherWAN — "When Connectivity is Crucial."

# Software Features

## + Interface

Web GUI

## + Management

- Firmware upgrade
- Configuration backup and restore
- DHCP Client
- SNMP Trap
- Port Mirroring
- LLDP (Link Layer Discovery Protocol)

## + Security

- MAC address filtering
- Enable/Disable PoE per port
- Storm control
- TCP/UDP filter
- Initial login complex password setup requirement

## + 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)

## + Layer 2 Features

|   |  |
|---|--|
| Auto-negotiation for port speed and duplex mode | Flow Control<br>IEEE 802.3x full duplex mode<br>Back-pressure half duplex mode |
| VLANs   | 16 Groups, 4096 VID<br>Tag-based<br>Port-based                                 |
| Link Aggregation                                | Static Trunk (2 groups)  |
| IGMP Snooping                                   | IGMP Snooping v1/v2  |

## + Software Properties and Performance

|                      |           |
|----------------------|-----------|
| Switching Fabric     | 20Gbps    |
| Forwarding Rate      | 14.88Mpps |
| Jumbo Frame Size     | 9.6KB     |
| MAC Table Size       | 8K        |
| Packet Buffer Memory | 4Mb       |

## Hardware Specifications

### + Interface

|                       |  |
|-----------------------|--|
| <b>Ethernet</b>       | 10/100/1000BASE-T(X): 16 ports<br>100/1000BASE SFP: 4 ports (combo with ports 13-16) |
| <b>LED Indicators</b> | Per Unit: Power<br>Per Port PoE: Status<br>Per Port Link: Link/Activity              |
| <b>Reset Button</b>   | Restore factory default settings   |

### + Technology

|                                   |   |
|-----------------------------------|---|
| <b>Standards</b>                  | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3z 1000BASE-SX/1000BASE-LX<br>IEEE 802.3x Full duplex and flow control<br>IEEE 802.1p QoS<br>IEEE 802.1Q Tag VLANs<br>IEEE 802.3af Power over Ethernet (PoE)<br>IEEE 802.3at Power over Ethernet (PoE+)<br>IEEE 802.1AB LLDP (Link Layer Discovery Protocol)<br>IEEE 802.3az EEE (Energy Efficient Ethernet) |
| <b>Forward and Filtering Rate</b> | 14,880pps for 10Mbps<br>148,880pps for 100Mbps<br>1,488,000pps for 1000Mbps   |
| <b>Processing Type</b>            | Store-and-Forward<br>Auto-Negotiation<br>Half-duplex back-pressure full-duplex flow control<br>Auto MDI/MDIX  |

### + Power

|                          |   |
|--------------------------|---|
| <b>Input</b>             | 100-240VAC, 50/60Hz                                 |
| <b>Power Consumption</b> | Device: 23W (without PoE)<br>PoE Power Budget: 250W |

### + Physical

|                          |   |
|--------------------------|---|
| <b>Casing Material</b>   | Metal   |
| <b>Dimensions</b>        | 266 x 161 x 44mm (W x D x H)<br>10.5" x 6.34" x 1.73" |
| <b>Weight</b>            | 4lbs (1.8kg)  |
| <b>Installation Type</b> | Rack mounting, Desktop                                |

### + Environmental

|                          |                             |
|--------------------------|-----------------------------|
| <b>Operating Temp.</b>   | 0 to 50°C (32 to 122°F)     |
| <b>Storage Temp.</b>     | -10 to 70°C (14 to 158°F)   |
| <b>Relative Humidity</b> | 10% to 90% (non-condensing) |

### + Regulatory

|            |                                   |
|------------|-----------------------------------|
| <b>ISO</b> | Manufactured in ISO-9001 facility |
| <b>EMI</b> | FCC Part 15 Class B               |

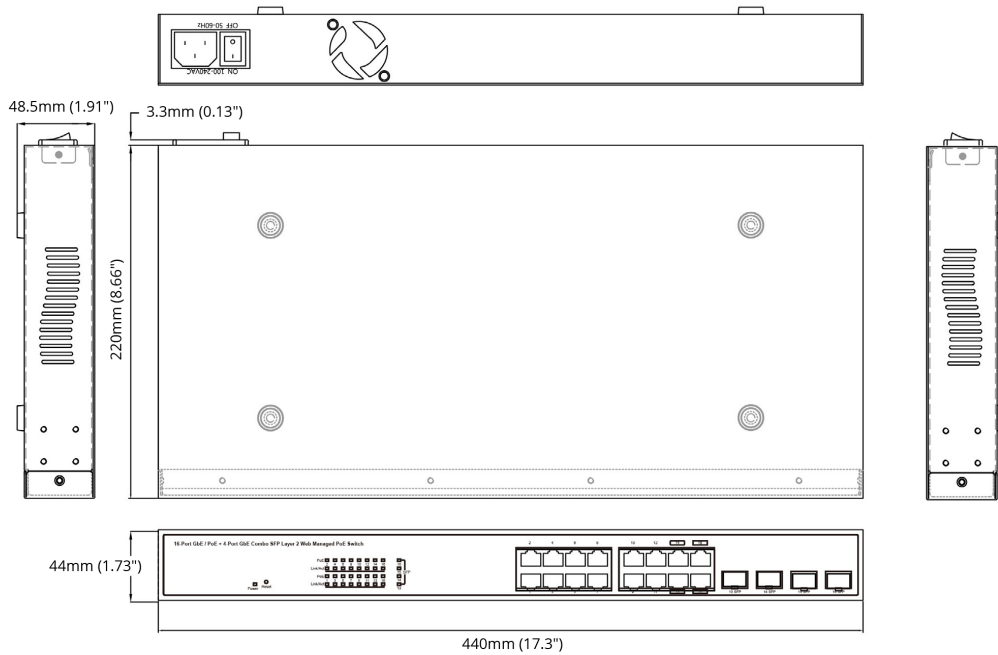
### + Warranty

|                |  |
|----------------|--|
| <b>Length</b>  | 3 Years  |
| <b>Details</b> | <a href="http://www.etherwan.com/support/warrantypolicy">www.etherwan.com/support/warrantypolicy</a> |

### + What's Included

|                      |                           |
|----------------------|---------------------------|
| <b>Device</b>        | Ethernet Switch           |
| <b>Power</b>         | AC power cord             |
| <b>Installation</b>  | Mounting brackets, screws |
| <b>Documentation</b> | Quick Install Guide       |

## Dimensions



## Ordering Info

### + Model

**EX19164** 16-port 10/100/1000BASE-T(X) PoE (4-port 100/1000 SFP combo)

\* Rack mounting kit included.

