6 Troubleshooting

Follow these steps if there is any trouble with the switch.

1. Make sure the equipment is installed according to the manufacturer's installation guide.
2. Confirm that the RJ45 cable order meets the EIA/TIA568A and 568B standards.
3. Make sure that the device is not connected to power over 30W, as this is the maximum power that a PoE port can supply.
4. If the equipment is damaged, replace it with a functioning 16-Port PoE Ethernet Switch.
5. If the problem is not resolved, contact support.

To contact support, go to:

www.een.com/support/

support@een.com +1-512-473-0501

Version 20250618
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16-Port PoE Ethernet Switch Quick Start Guide

The 16-Port Gigabit Ethernet Switch (EN-SW20g-001) with Power over Ethernet (PoE) support is designed for Ethernet projects and security system monitoring in HD. This switch is integrated with security monitoring features and provides fast packet forwarding. It offers enough bandwidth with its gigabit transfer rates to ensure clear images and smooth transmission, meeting the high bandwidth demands of HD video.

1 Getting Started

We recommend reading these instructions fully before starting. You will need the following:

- Eagle Eye 16 + 2 Gigabit RJ45 + 2 Gigabit SFP ports Gigabit PoE Ethernet Switch
- AC power cable (not included)

If you require a static IP address on the switch, you will also need:

- Monitor
- USB Keyboard

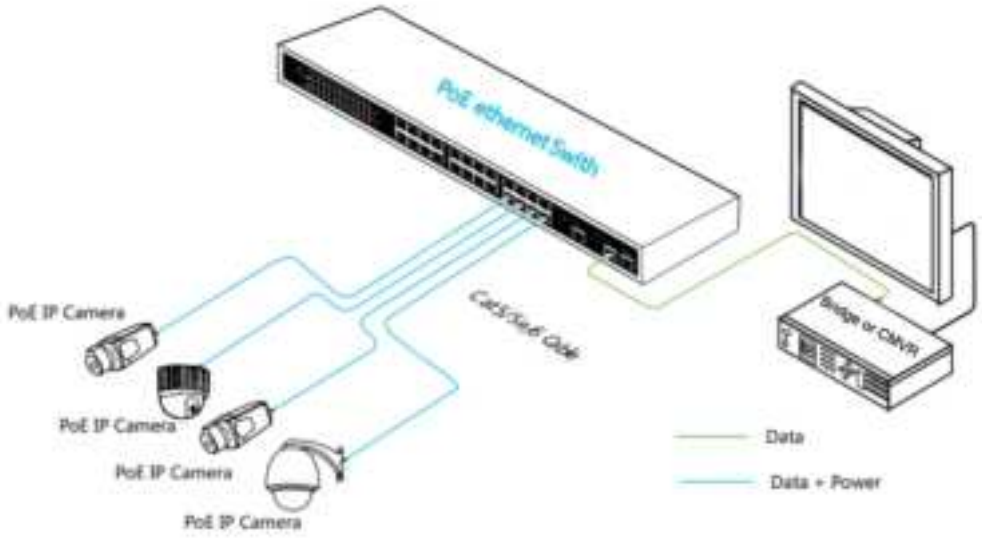


Figure 1: System Design

2 Login Information

The default values of the switch are:

IP Address	192.168.11
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
Username	admin
Password	admin

Note: The transmission distance is related to the connected cable. We suggest using a standard CAT5e or CAT6 network cable, and a quality camera to maximize the transmission distance.

3 Features

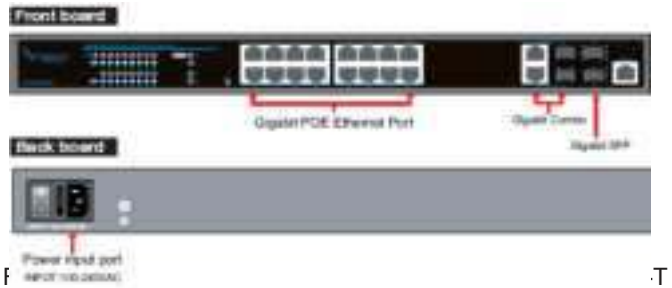
The switch conforms to the following standards:

- IEEE 802.3
- IEEE 802.3i
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3
- IEEE 802.3af/at
- IEEE 802.3x Flow control

Its EMI standards comply with FCC, CE class A

The switch provides the following:

- 16 10/100/1000 Base-T ports
- 2 Gigabit RJ45 + 2 Gigabit SFP
- 1 × 16 PoE injector
- High back-plane bandwidth of 40 Gbps



F -T with a 2 Gigabit RJ45 + 2 Gigabit SFP and 16 PoE Ethernet Switch

4 Installing the Switch

Before you begin: Turn off the signal power and the display device's power before installation, as installing the device while connected to power damages the transmission equipment.

To install the Switch:

1. Use a network cable to connect the PoE IP camera to one of the 16 ports on the switch.
2. Use a network cable to connect equipment to the uplink port and bridge/ CMVR or computer.
3. Connect the switch to AC power.
4. Ensure the Ethernet equipment is connected and works properly.

5 Specifications

Item			Description
Power	Voltage range		AC100~240 V
	Consumption		250 W for 16 PoE
Ethernet	Speed		1–16 Port: 10/100/1000 Mbps 17–18 Port: 10/100/1000 Mbps 19–20 Port: 1000 Mbps SFP port (SFP support optical module rates: 1.25 Gbps)
	Transmission distance		100 m (328 ft) for RJ-45; Transmission distance depends on the SPF optical module (optional)
Network Switch	Switching capacity		40 G
	Transfer rate		14,880 pps for 10 Mbps
			148,800 pps for 100 Mbps
			1,488,000 pps for 1000 Mbps
	MAC address		8K MAC address table
LINK/ACT	On	Green	Port connection speed is1000 Mbps
		Orange	Port connection speed is 10/100Mpbs
	Blinks	-	Port is receiving or transmitting data
	Off	-	Port is not linked successfully to the device
PoE	On	Orange	PD is connected
	Off	-	No PD connected or power forwarding fails
	PoE pin assignment		V+(RJ45 Pin 1,2); V-(RJ45 Pin 3,6)