# 16 Ports PoE Ethernet Switch User Manual

16 Ports support 16 PoE Ethernet Switch is a security monitoring Ethernet swit ches are designed to Ethernet HD monitor security systems and Ethernet projects. The product is fullyintegrated with the characteristics of the security monitoring, pro vi-ding fast packet forwarding capability, the product is fully gigabit transfer rates p-rovide enough bandwidth to ensure clear images, smooth transmission. Provide en -ough bandwidth demand for high-definition video.
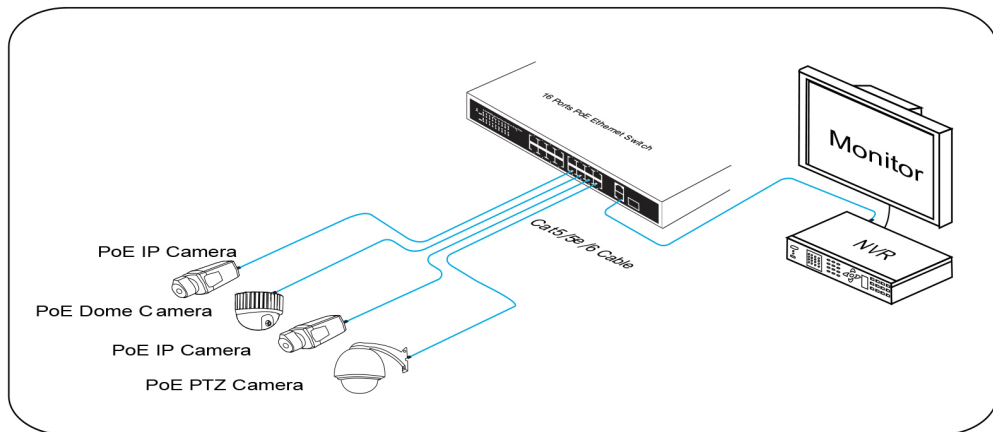
■ Feature

Conforms to IEEE802.3, IEEE 802.3u, IEEE 802.3ab,IEEE802.3af, IEEE802.3at

Provides 16 10/1 OOBase-TX ports and 1 Gigabit Combo+1 Gigabit RJ-45

Provides 16 PoE injector and 250W Built-in power supply

High back-plane bandwidth 9. 2 Gbps

IEEE802.3x Flow control

⚠ Notice

The transmission distance is related to the connected cable. We suggest standard
Cat5e 6 network cable and quality of camera so the transmission distance can up tofurthest

■ Board Diagram

Front board

POE Ethernet Port   Gigabit Combo Port

Back board

Power input port
INPUT:100-240VAC

■ Installation steps

Please check the following items before installation, if t is missing ,please contact the dealer.
- 16+ 2 Combo Gigabitports +1 SFP PoE Ethernet Switch   1pcs
- AC power cable   1pcs
- Accessory   1pcs
- User manual   1pcs

Please follow the below installation steps
1) Please turn off the signal power and display device power before installation, installation with power will damage the transmission equipment
2) Use network cable connect PoE IP camera and 1～16 ports of product respectively
3) Use a network cable connect equipment up link port and NVR or computer
4) Connect AC power
5) Check if the installation is correct equipment is in good condition   the connection is stable then provide power for system
6) Ensure the Ethernet equipment with power and work properly

■ Specificati

Item		Description
Power	Power Supply	Built-in power supply
	Voltage Range	AC100~240V
	Consumption	246.4W for 16 PoE
Ethernet	Speed	1-16 Port:10/100Mbps 17-18 (combo) :10/100/1000Mbps&1.25Gbps 19 : 10/100/10'00Mbps
	Transmission Distanc	100Meter(328ft)for RJ-45 The distance is determined by the optical module The optical module is optional
Network Switch	Ethernet Standard	IEEE 802.3/802.3u/802.3a b/802.3af/at
	Switching capacity	9.2G
	Transfer Rate	14,880 pps for 10Mbps 148,800 pps for 100Mbps 148,8000 pps for 1000Mbps
	MACAddress	4K MAC address table
LINK/ACT	On	Red	The port is connecting
	Blinks	-	The port is receiving or transmitting data.
	Off	-	The port is not linked successfully with the device
POE	On	Green	PD is connected
	Off	-	No PD is connected or power forwarding fails
	PoEpin assignmnet:		V+(Rj45 Pin 1 , 2), -(Rj45Pin 3, 6)
Working Environment	Working Temperature	0~40℃
	Storage Temperature	-40~70℃
	Humidity Non condesing	0~85%
Mechanical	Dimension L*W*H	280*180*40 MM
	Color	Gray

specificati change will not be noticed

■ Trouble Shooting

Please follow the steps if the equipment has trouble
● Make sure the equipment is installed according to the manufactures installation guide
● Confi RJ45 cable order meets EIA T I/A568A or 568B standard .
● Every PoE port can provide PoE equipment maximum power less than 30W, please do not connect the PoE equipment with power over 30W
● Replace the equipment with a proper functioning 16 ports PoE Ethernet Switch to check if the equipment is damaged
● Please contact your vendor if trouble still exists

■ Plug Producing Method

Instruments to be used, wire crimper. network tester: Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.
1 Please remove 2cm long the insulating layer and bare 8 pairs UTP cable
2 Separate the 8 pairs UTP cable and straighten them
3 Line up the 8 pieces of cables per EIA TIA 568A or 568B
4 Cut off the cables to leave 1 . 5cm bare wire
5 Plug 8 cables into RJ45 plug make sure each cable is in each pin
6 Use the wire crimper to crimp it
7 Repeat above 9 steps to make the another end
8 Use network tester to test the cable if t works

Pin	Color
1	White/Green
2	Green
3	White/Orange
4	Blue
5	White/Blue
6	Orange
7	White/Brown
8	Brown

EIA/TIA 568A

Pin	Color
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown
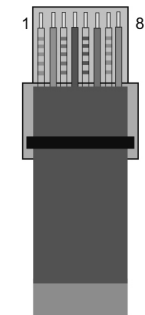
EIA/TIA 568B

⚠ Notice

When choose RJ45 make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A.
When choose RJ45 make sure if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.