User Manual

16/24 × 10/100/1000 Base-T

Gigabit Ethernet POE Switch

IV-NT16POE-LCD/
IV-NT24POE-LCD
Rev. D 1.0

Please read before using the POE Switch

☞ Brief introduction

Many thanks for purchasing Ethernet POE Switch. This product supports 10Base-T, 100Base-TX, 1000Base-T and 1000Base-X protocols, as well as full duplex and half duplex mode. It provides 16/24 Gigabit Ethernet copper ports and 4 UPLINK Gigabit Ethernet combo ports. The following purchasing guide is for your reference.

Purchasing guide for optical media converters

Model	Specifications
IV-NT16POE-LCD	16 × 10//100/1000M UTP ports 4 × 1000M UPLINK ports
IV-NT24POE-LCD	24 × 10/100/1000M UTP ports, 4 × 1000M UPLINK ports

☞ Packing list

Please check the following items in the package before installing the converter.

Fast Ethernet POE Switch	1 piece
AC power cable	1 piece
User manual	1 copy

Please contact the dealer immediately for any missing or damaged items.

☞ Interface

RJ-45 interface

The transmission media is CAT5 twisted-pair with a maximum length of 100 meters. It features auto -negotiation of straight through line and crossover cables.

Fiber interface

The LC fiber interface is of duplex type, namely TX and RX. When the two sets of optical converter are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber).

2. Connection

Connect the network device (wireless AP, IP cam or switch) to the RJ-45 jack of the switch through CAT5 twisted-pair. Connect the fiber to LC fiber interface of the switch. Turn the power on. The corresponding LED is on for a correct connection. (See the table below for the LED indicator lamp)
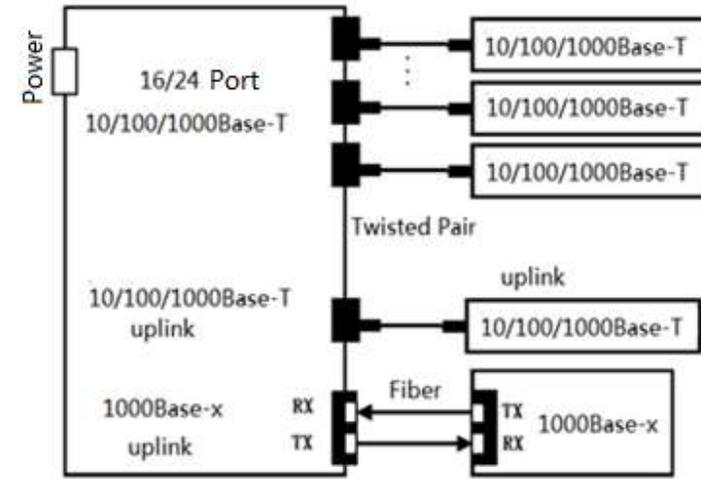

Fig.1 Basic Network Connection

Panel

1. IV-NT24POE-LCD

2. IV-NT16POE-LCD

☞ Explanation for LED indicator lamp

The LED indicator lamps serve as device monitoring and error display. The following explains each LED indicator.

LED	Status	Explanation
PWR	ON	Power is good.

POE P1~P16/24	ON	Lit when the connected port(s) is/are PSE starts to supply power
	OFF	Off when the connected port(s) is/are PSE stop power supply
1000M Link/ACT P1~P20/28	ON	Light on when link speed is 1000M
	Blink	Blink when transferring data
100M Link/ACT P1~P20/28	ON	Light on when link speed is 100M
	OFF	Blink when transferring data

LCD Display（Option）: User-friendly interface, real-time displays the system power, PSE POE power and its working conditions.

☞ Installation

1. Turn off the power of the device/station in the network in which the switch will be installed.
2. Ensure that there is no activity in the network.

☞ Technical parameters:

1. Standard Protocol:
   IEEE 802.3 10 Base-T
   IEEE 802.3 100 Base-TX
   IEEE802.3z 1000Base-X
   IEEE802.3ab1000Base-T
   IEEE802.3x Flow Control
   IEEE 802.3af POE
   IEEE 802.3at POE+

2. Connectors:
   16/24 × UTP RJ-45 connector with PSE
   4 × UTP RJ-45 jacket/SFP slot

3. Operation mode:
   FX: 1000 Base-X Full-duplex mode
   TX: 10/100/1000Mbps auto-negotiation mode

4. Power supply:
   110V~240VAC 50/60Hz
   PSE Pinout: PIN1/2: Pos(+), PIN3/6:Neg(-)

5. Operation temperature: 14°F~158°F (-10℃~70 ℃)
6. Storage temperature: -40°F ~185°F (-40℃~85 ℃)
7. Operation humidity: 5%-90% non-condense
8. Storage humidity: 5%-90% non-condense
9. Twisted Pair cable: Cat5 UTP cable
10. Fiber cable:
    multi-mode: 50/125, 62.5/125 μm
    single mode: 9/125 μm
11. Dimensions: 440 × 280 × 44 (mm) (D × W × H)

☞ Warning:

1. This product is suitable for indoor application.
2. Place the dust cover on the fiber interface when not in use.
3. It is dangerous to stare at the fiber transmitter with the naked eye.
4. The appliance inlet is used as the disconnect device and shall remain readily operable at all time.

☞ Trouble shooting:

1. Device is not connecting. Please check that the corresponding network device is using the same transfer rate as the media converter (10Mbps, 100Mbps or 1000Mbps).

2. If power loss is excessive in the fiber, please check and clean the fiber patch cord connectors.

12000 Ford Road, Suite110 Dallas, TX 75234
www.idview.com