4 Port (PoE) + 2 Uplink
Power Over Ethernet

Model Number
TW - 0402

4 Ports PoE (Power Over Ethernet) is for your any device which requires PoE 15.4 watt at each channel also aims at Ethernet High definition surveillance and security systems .The device fully combines the characteristics of security surveillance, provides fast packet forwarding ability and abundant backplane bandwidth, which ensures clear image and fluent transmission. ESD and surge protection circuit can improve product stability.
The products supports one key CCTV model,
with VLAN function can restrain the network strom, protect the information security, prevent the viral transmission and cyber attack, fully satisfy the Ethernet Video Security ---------
Surveillance system and Ethernet projects needs.
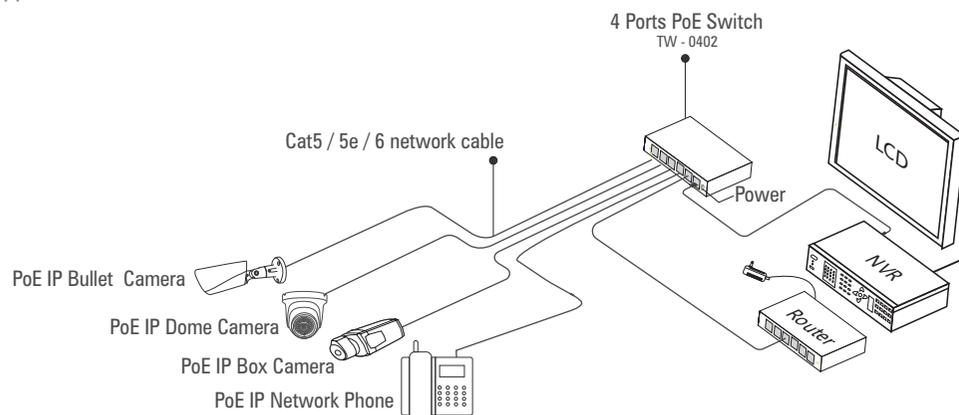
Features

- 2 Ports X 100 Mbps uplink Ethernet port (Extra Port to connect internet).
- 4 Ports X 100 Mbps downlink POE (Power over Ethernet) every port supports MDI / MDX.
- Special Function : One Key CCTV mode (1 ~ 4 downlink - ports can only communicate with uplink ports).
- Power input : DC48V ~ 57V. Output : 56 W.
- Transmission Distance : Ethernet 0 ~ 100m ; the furthest transmission distance could reach 250 meter in CCTV mode uplink port can reach 100m.
- Standard : Meet IEEE802.3 , IEEE802.3u , IEEE802.3 af/ at standards, Support MID - Span & END - Span Devices.
- Protection : Thunder Lightning -, anti static and anti - interference ability up to **6KV.**
- Designed for smooth operation.
- Plug and Play no settings required.

⚠ Notice

- The Transmission distance to the connected cable , our suggestion use standard Cat 5e/ 6 network cable , so that the transmission distance will be up the max .
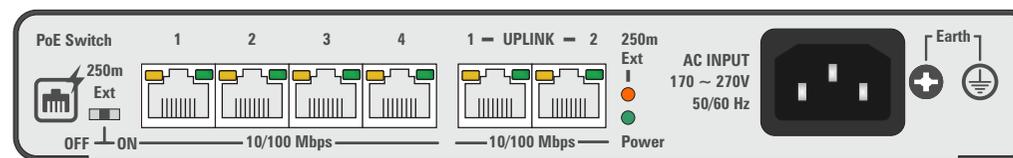
Applications

4 Ports PoE Switch
TW - 0402

Cat5 / 5e / 6 network cable

Power

LCD

NVR

PoE IP Bullet Camera

Router

PoE IP Dome Camera

PoE IP Box Camera

PoE IP Network Phone

Default Mode / CCTV Mode   Ethernet Uplink Port   Ground

PoE downlink Ethernet Port   AC Power Input

Over View

⚠ Notice

1) Device must be connected with the lightning protection grounding : other wise protection level reduce , please use little thick wire to connect the grounding terminal

2) Turn the dial switch to right the equipment can enter surveillance mode after providing equipment power .

Installation Steps

Please follow the below Installation steps

1) Please turn off the signal power and display device power before installation, or it will damage the transmission equipment;

2) Use network cable connect PoE IP camera (or other device) 1~4 downlinks ports of products respectively.

3) Use a network cable connect equipment uplink port and NVR or Computer .

4) Connect Mains Cord

5) Check if the installation is correct, equipment is in good condition, the connection is stable , then power on the device.

6) Ensure the ethernet equipment with power ON can work properly.

Technical Specifications

Model Number		TW - 0402	
Power	Power Supply	Internal	
	Voltage Range / consumption	DC48V ~ 54V / < 5W	
	Max PoE power	56 W	
Ethernet	Speed	1 - 4 Port Default : 10 / 100 Mbps	
		CCTV : 10 Mbps (CCTV Mode)	
		UPLINK : 100 Mbps	
	Transmission Distance	1-4 Port Default : 0 ~ 100 Meters	
		1-4 Port Default : 0 ~ 250 Meters CCTV Mode	
		UPLINK : 100 Meters	
Network Switch	Ethernet Standards	IEEE802.3 - 2.3u , IEE802.3 af/at	
	Exchange Capacity	1.2 Gbps	
	Packet forward Rate	0.74Mbps	
	Packet Buffer	768K	
	MAC	2 K	
Indicators	Power Light	1 pc (Green)	
	Ethernet Port Light	2 pcs (Yellow & Green) on RJ45 yellow indicates PoE green indicates link Active	
	Surveillance Mode Light	1 pc (Red) Green on indicates CCTV mode	
Protection Level	Pluse Group	Level 3 Standard: IEC61000 - 4 -4	
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3 Standard : IEC61000 - 4 - 2	
	Anti Thunder Level	6 KV Standard : IEC61000 - 4 - 5	
Working Environment	Working Temperature	- 10 Degrees C ~ 55 Degrees C	
	Storage Temperature	- 40 Degrees C ~ 85 Degrees C	
	Humidity (Non - condensing)	0 ~ 95 %	
Mechanical	Dimension (L x W x H)	279mm × 130mm × 32.5mm	
	Our Shell	Galvanized Sheet	
	Color	Dark Grey	
	Weight	0.231Kg (only PoE device)	

Technical specifications are subject to change without prior notice for quality improvement.

Caution

CAUTION
DO NOT OPEN
RISK OF ELECTRIC SHOCK

CAUTION
TO REDUCE THE RISK OF ELECTRIC SHOCK,
**DO NOT REMOVE COVER (OR BACK),NO
USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be sufficient magnitude to constitute a risk of electric shock to a person.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in literature accompanying the appliance.

Notice

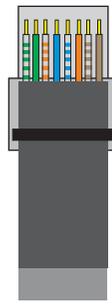When choose RJ45 make sure if one end is EIA /TIA568A, The other end should also be EIA / TIA568A
When choose RJ45 make sure if one end is EIA /TIA568B, The other end should also be EIA / TIA568B

Plug Crimping Method

Instruments to be used : wire crimper . network Network tester.
Wire sequence of RJ45 plug should confirm with EIA / TIA568 A or 568B

1) Please remove 2 cm long the insulating layer , and bare 4 pairs UTP cable
2) Separate the 4 pairs UTP cable and straighten them
3) Cut off the cables to leave 1.5 cm bare wire
4) Plug 8 Cables into RJ45 plug, put each cable is in each pin
5) Use the wire crimper to crimp it
6) Repeat above 5 steps to make the another end
7) Use network tester to test the Cable for proper connections

Wire color
1 White / Green
2 Green
3 White Orange
4 Blue
5 White / Blue
6 Orange
7 White Brown
8 Brown

EIA / TIA 568A

Wire color
1 White Orange
2 Orange
3 White / Green
4 Blue
5 White / Blue
6 Green
7 White Brown
8 Brown

EIA / TIA 568B

Trouble Shooting

- Make sure the equipment is installed according to the manufactures installation guide
- Do not connect the overate Lode to the device
- Confirm RJ45 cable order meets EIA/TIA568A or 568B standard.
- Please contact your vendor if trouble still exists

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6KV Protection

Tiway — INTELLIGENT BONDS

4 Port (PoE) + 2 Uplink Power Over Ethernet Operating & Instruction Manual

Package contains

Please check the following items before installation, if any of the things missing mention below please contact the Dealer .

- 4 Ports PoE Switch
- AC Power cable
- Accessories
- User Manual