

4 Ports PoE Switch UTP7204E-POE-A1



INTRODUCTION

UTP7204E-POE-A1 is an unmanaged industrial PoE switch, which features 4* downlink Ethernet ports and 2* uplink ports. It supports one key CCTV mode, can achieve VLAN after configuration, 250m transmission distance for downlink ports, control the Net storm, protect the information security, prevent the viral transmission and Ethernet attack, fully satisfy the Ethernet video security surveillance system and Ethernet project needs. The switch supports NI-MH Battery power supply and DC supply.

Compared with ordinary switch, UTP7204E-POE-A1 has industrial features and quality. It supports hybrid fiber and Ethernet transmission, long distance transmission of Ethernet port, PoE+ high power supply, one key reset management, the industrial wide temperature, redundant power supply at full capacity and superior lightning protection and anti-interference ability which fits in various complex environment. It is a high performance/price ratio product in the field of HD IP security surveillance and IoT transmission application.





• FEATURES

- ◆ Provide four 10/100Mbps PoE ethernet ports and only support power to IEEE802.3 af/at standard ethernet equipment. So there is no need to worry about damaging the non-PoE network equipment;
- ◆ PoE ethernet port supports IEEE802.3 af/at standard and provides up to 30W power and supplies high power for Infrared Camera;
- ◆ Provide two uplink ports, 100Mbps optical port and ethernet port. uplink optical port reserves SFP port for users to select SFP fiber modules of different performance to solve long distance transmission issue;
- ◆ Every PoE ethernet port have button restart function, which allow users to solve network camera crashes and other failures with no need to plug out the network cable. The restart button is set on the slant, so that users can operate it from multiple angles;
- ◆ Ethernet port can reach maximum transmission distance up to 150m, breaking the 100m limit;
- ◆ One key CCTV mode; 1 ~ 4 downlink ports can only communicate with uplink ports; the furthest transmission distance could reach 250m;
- ◆ Redundant power design, support Hot Backup Power;
- ◆ Quasi-industrial products, fan-free heat folds metal design;
- ◆ Excellent circuit isolation protection, Anti-thunder ability up to 2KV;
- ◆ Fast installation , easy operation, convenient for wall-hung, din rail and desktop installation.

• ADVANTAGES

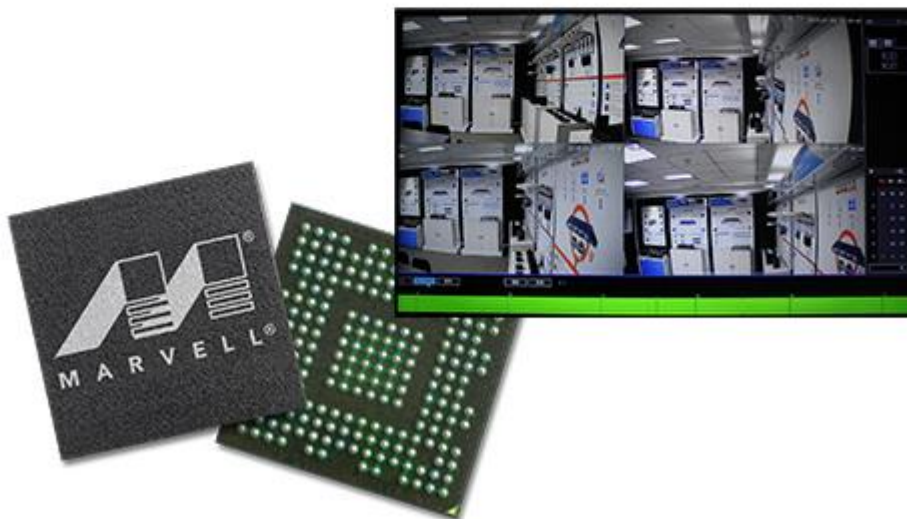
One Key CCTV Mode

Extend transmission distance up to 250m;
VLAN function to insulate communication among ports and ensure a
high forwarding efficiency and securer system;
Auto-identify and restrain Network storm under 2M, maintain a safe and stable network.



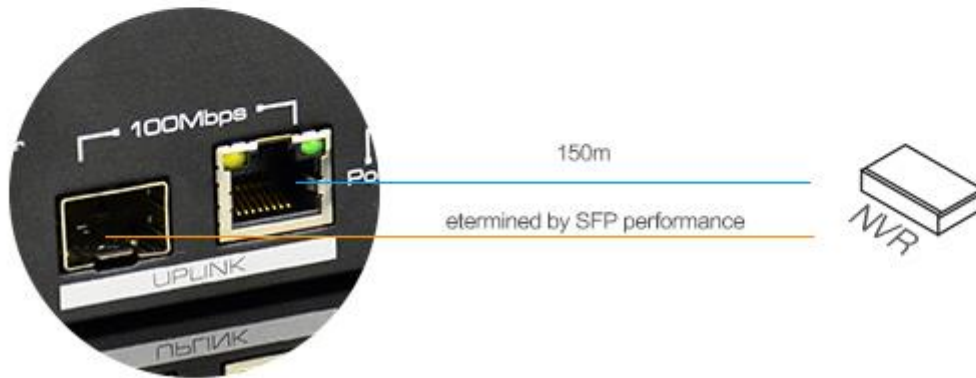
2. Industrial-Level Chip Superior Performance

High performance AVB protocol network switch engine,
chip solution with embedded high speed ARM processor, up to 1M package cache,
8K MAC, low power consumption IC and less than 1ms latency to ensure more
fluent and reliable big capacity data forwarding and easier system expansion.



Hybrid Fiber and Ethernet Long Transmission Distance. 3

Gigabit hybrid fiber and Ethernet uplink ports design;
SFP fiber port, convenient for fiber port application;
Ethernet port distance up to 150m, convenient for remote router or NVR access.



4 PoE+ 250m Downlink Ports

Provide 4x100Mbps 250m PoE+ downlink ports, meet needs of multi-channel PoE IP cameras; Support IEEE802.3 af/at standard, Max. 30W power, meet needs of high power cameras; Support IEEE802.3X full-duplex flow control and Auto MDI/MDIX function.



Multiple Power Supply Methods

5

Support 2 power supply methods: Green terminal and DC supply; Effectively improve battery stability.



COMPARISON

Industrial PoE Switch
UTP7204E-POE-A1

VS

Ordinary Switch



Chip



Environment

Industrial-level chip solution

Adopt industrial MARVELL chip;
Suitable for video stream data exchange in surveillance system.

Ordinary chip solution

Data processing ability can't meet requirements of 24/7 continuous working of multi-channel HD video transmission.



Extreme working environment

Industrial wide working temperature: -40°C – 75°C .



High demands on working environment

Working temperature for ordinary switch: 0°C – 50°C ;
Work in monitoring room only.



Reset

PoE reset patented design

Support PoE and PoE+ standard; feature whole PoE Ethernet ports and single PoE port reset buttons; easy maintenance.



No reset function for single port

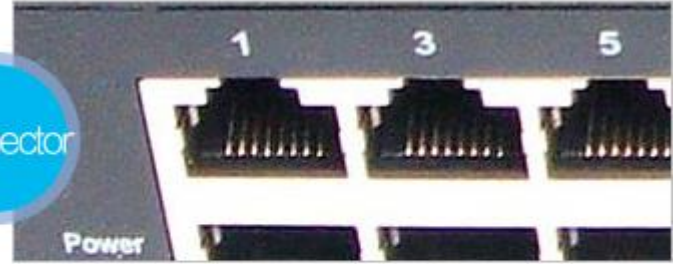
Ordinary switch has no reset button for single port, which may cause inconvenience in device maintenance.



Connector

Rj45 connector flat pin design

Adopt Rj45 flat pin design and up to 30uM gold-plating to ensure stable data and power transmission.



Ordinary Rj45 connector

Ordinary Rj45 connector, only 3uM gold-plating, can't ensure stable signal transmission.



Protection

4KV lightning protection, Level 3 ESD

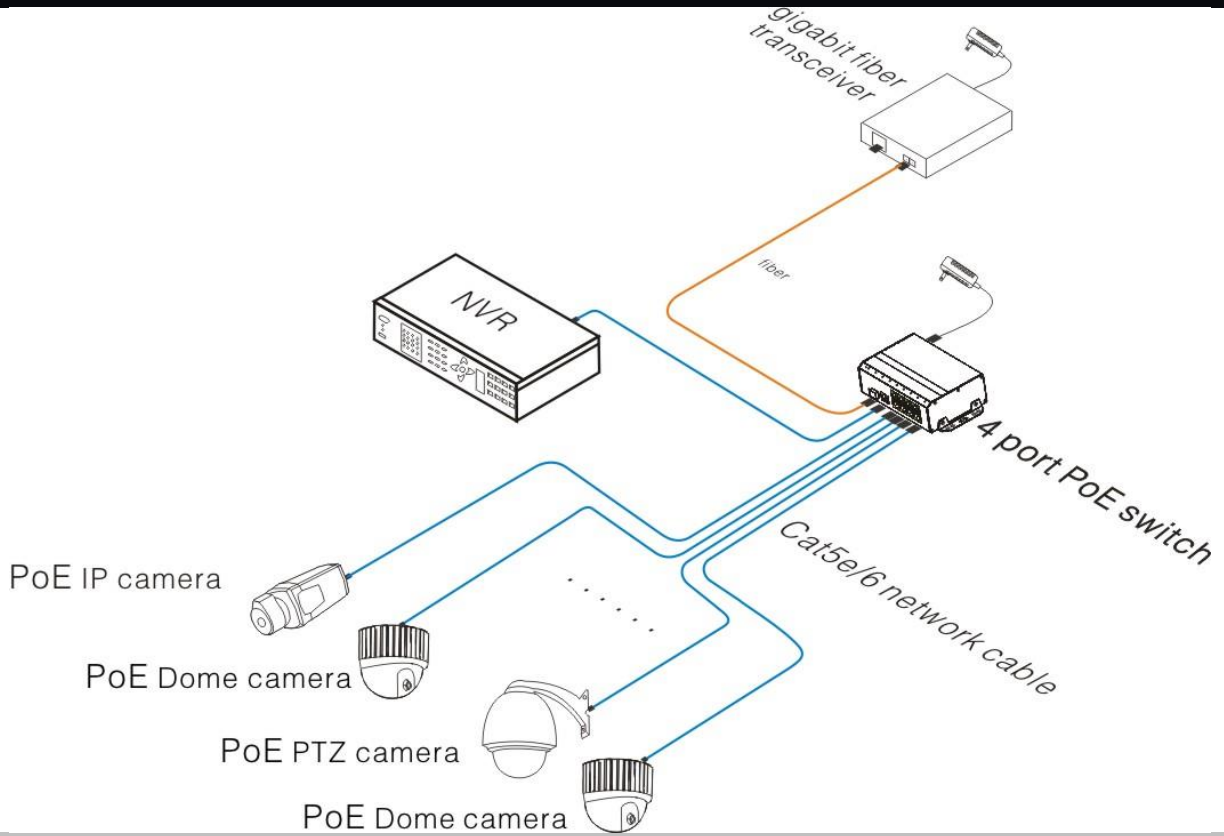
Adopt IEC 4KV standard level 4 lightning protection, Level 3 ESD.



Low lightning protection level

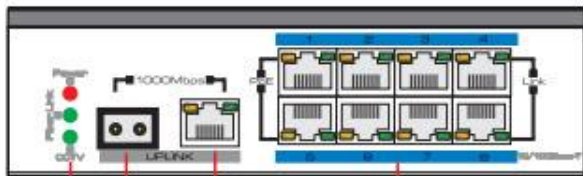
Lightning protection level for ordinary switch normally under level 2.

APPLICATION

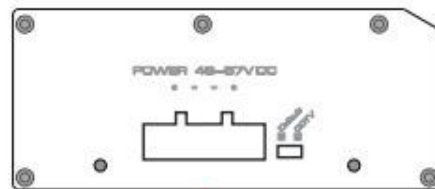


BOARD DIAGRAM

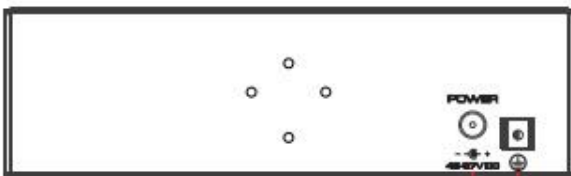
Front Board



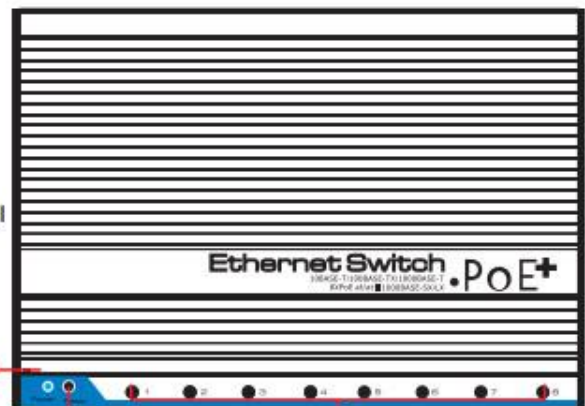
Left Board



Back Board



Up Board



Power indicator light

Machine reset button

PoE port reset button

. INSTALLATION



. SPECIFICATIONS

Item	4 Ports PoE Ethernet Switch	
Power	Power supply	Power adapter
	Voltage range	DC48V~57V
	Consumption	< 5W
Ethernet port parameter	Network port	1~4 port:10/100BASE-TX(Default); 10BASE-T(CCTV) UPLINK port : 10/100BASE-TX SFP:100BASE-FX SFP
	Transmission distance	Downlink Ethernet port:0~150m(Default); 0~250m(CCTV) SFP:depend on the optical module transmission performance
	Transmission medium	Cat5e/6 standard network cable
	PoE agreement	IEEE802.3af/at agreement
	PoE power supply	End-span
	PoE power	Single port PoE output≤30W; Whole<60W;
Ethernet exchange specification	Network standard	IEEE802.3 10BASE-T,IEEE802.3u 100BASE-TX, IEEE802.3u 100BASE-FX,IEEE802.3 X
	Switch Capacity	1.2Gbps
	Packet Forwarding Rate	0.89Mpps
	Packet Buffer	512K
	MAC address list	2K
Status indicator	Power indicator	one red front board, one red oblique board
	Optical port LED indicator	1 SFP port working status, green
	Uplink ethernet port LED	1 Ethernet working status, RJ 45 port green light
	PoE ethernet port LED	4 PoE status indicator, RJ 45 port yellow light; 4 network status indicator, green light
	CCTV LED Indicator	Green Light indicate CCTV mode
Button	PoE reset button	Four button ,corresponding to 1 ~4 port, for PoE restart
	Reset button	After pressing , the machine restart
Protection level	Communication port lighting	6KV, standard: IEC61000-4-5
	ESD	6KV/8KV, standard:IEC61000-4-2
Operation environment	Working temperature	-40°C~75°C
	Storage temperature	-40°C~85°C
	Humidity (non-condensing)	0~95%
Mechanical	Dimension (L×W×H)	159mm×110mm×46.5mm
	Material	Aluminum
	Color	Black
	Weight	540g

Product are subject to change without prior notice