



UTEPO

UTEPO New Products Introduction

**Video Surveillance and Network
PoE Solution Provider**

SHENZHEN UTEPO TECH CO., LTD

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01

New Products: Industrial Switches



IEEE 802.3bt PoE

Why is IEEE 802.3bt Necessary?

As POE-powered IoT networks expand globally. More power-hungry devices are being created. They need more than 30 /60 W of power.

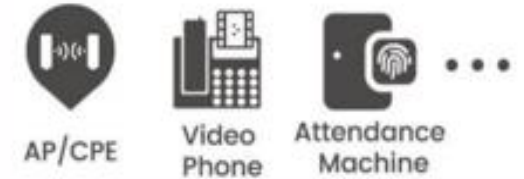


What Equipment Needs The IEEE 802.3bt PoE?

802.3af/15W



802.3at / 30W



802.3bt Type3 / 60W



802.3bt Type4 / 90W



Other Equipment



4 Ports btPOE Unmanaged: UTP6306TS-PSD / UTP6306TS-PSD-W / UTP6306TS-PSD-PDD UTEPO



UTP6306TS-PSD
360W

Quick PoE

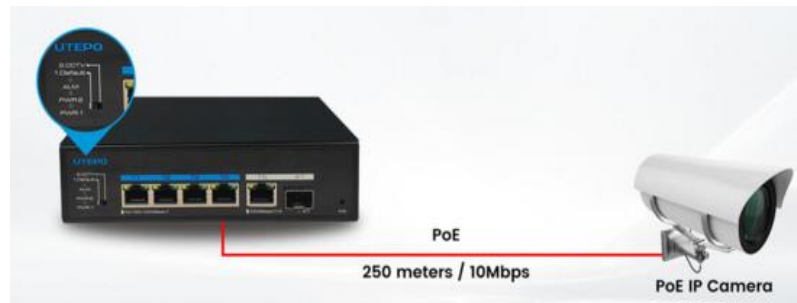
Provide power to connected terminal devices within short duration even before the switch forwarding starts up.



UTP6306TS-PSD-W
60W@12V, 120W@24V, 240W@48V

One-key CCTV Mode

You can change the operating mode of the product to **CCTV mode** through the **DIP switch** on the front panel. Under CCTV mode, the transmission distance would be extended to 250m max., while the rate would be limited to 10Mbps



UTP6306TS-PSD-PDD
75W@PoE, 120W@DC

DC Redundant Power

Support dual DC 48~57 power supplies, one of which is used as a redundant power supply.



Feature >>>

- 4*GE PoE++(90W)
- 1*GE RJ45 + 1*GE SFP
- IEEE 802.3af/at/bt
- Quick PoE
- CCTV mode
- Redundant power supply
- UTP6306TS-PSD-W supports 12~57V wide voltage input
- 6kV surge immunity
- 6kV contact discharge, 8kV air discharge ESD protection
- Fan-less metal shell design
- DIN-rail/Desktop/Wall mounted installation
- -20°C~+65°C operating temperature

8 Ports Gigabit bt L2 Managed: UTP7310S-PSB / UTP7310S-PSD

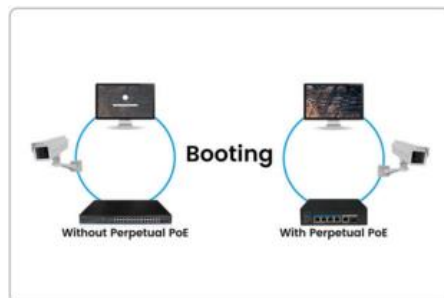


Feature:

- 7310S-PSB: 8*GE PoE(30W)
- 7310S-PSD: 4*GE PoE++(90W) + 4*GE PoE(30W)
- 2*1G / 2.5G SFP
- IEEE 802.3af/at/bt
- L2 management
- operating temperature: -40°C~+75°C

Perpetual PoE

Provide uninterrupted PoE supply to the powered device during the restart or update of the switch.



Quick PoE

Provide power to connected powered device within short duration before even the switch forwarding starts up.



DC Redundant Power Supply

Support dual DC 48~57 power supplies, one of which is used as a redundant power supply.



Metal Case & Fanless

Wave metal shell & fanless design ensure better heat dissipation and noiseless operation.



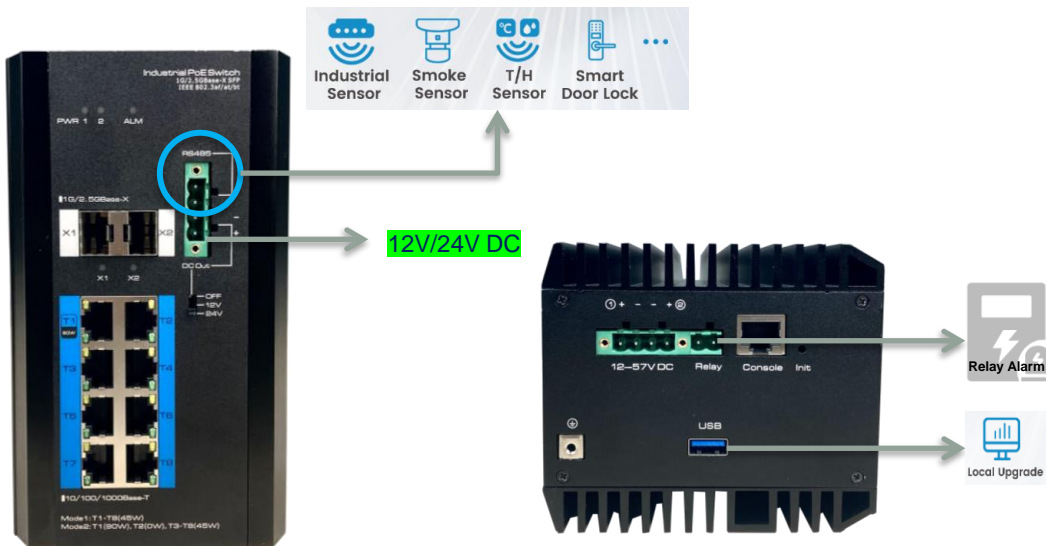
UTP7310S-PSD240-W: 8 Ports GE btPOE L2 with 12~57V Inputs

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Feature >>>

- 8*10/100/1000BASE-T PoE RJ-45(Auto MDI/MDIX)
- 2*1G/2.5GBASE-X SFP
- POE budget: 240W
- Mode1: port1~8 45W
- Mode2: port 1 90W; port 2 0W; ports 3~8 45W
- 1*RJ-45 Console
- 1*Relay
- 1*USB 3.0
- 1*RS485
- 1*DC Output
- Working temperature: -40~75° C
- Redundant power supply
- 12~57V wide voltage inputs
- 6kV contact discharge, 8kV air discharge ESD
- Fan-less metal shell design
- DIN-rail/wall mounted/desktop installation



UTP7612S-PSD360: 8 Ports GE btPOE / 10GE Uplink / L2



Convenient Auxiliary Interfaces

- 1*RS485:** Support customization services to access various IoT devices or as a serial server. Provide Modbus conversion and can easily integrate with SCADA systems, HMI systems and other data acquisition systems in factory floors.
- 1*USB 3.0:** Support local update for software, avoiding device crash caused by power failure during web upgrade.
- 1*Relay:** Support relay alarm for power failure, cable link down, and PoE link off.



- 4*GE PoE++(90W) + 4*GE PoE+(30W)
- 2*10G SFP+ + 2*1G/2.5G SFP
- IEEE 802.3af/at/bt
- L2 management
- **Quick PoE & Perpetual PoE & PoE Schedule**
- **One-key smart** (CCTV, LOCK, RING, ONLINE)
- -40°C~+75°C operating temperature

ONVIF & Smart Topology View

The switches could automatically recognize ONVIF-supported IP cameras, network video recorders (NVRs) and other IP devices like access control systems. Then, they form a virtual topology view in the WEB GUI through LLDP, from which users can learn information about the connected devices, including IP address, device type, device name, MAC address, etc.



Highlights: UTP7310S-PSB / 7310S-PSD / 7310S-PDS240-W / 7612S-PSD360 UTEPO

bt POE

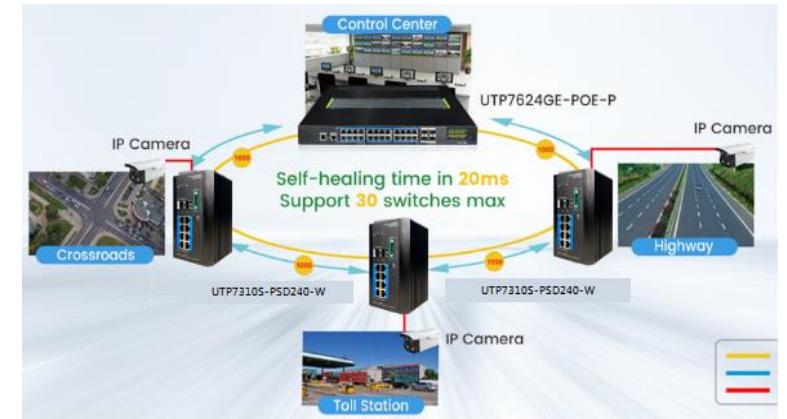
Now is the Time to Upgrade to IEEE 802.3bt PoE



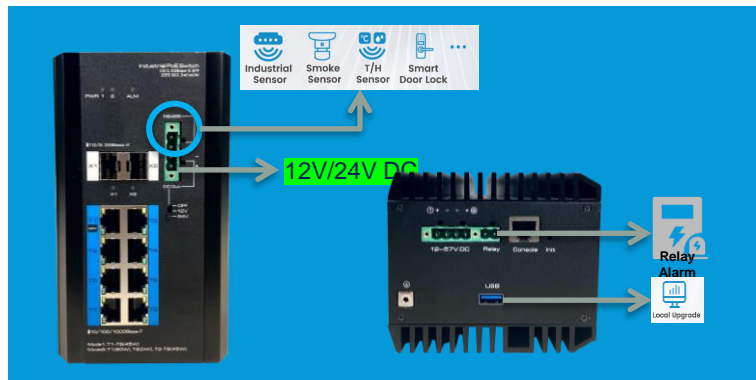
POE Watchdog/P-POE/Q-POE



Fast Ring



Abundant Interfaces



Onboard eMMC



L2 Management





New Products: Commercial Switches



Features and Highlights

Abundant Interfaces

- 4*10/100/1000Base-T PoE+ RJ-45 (Auto MDI/MDIX) ports
- 1*10/100/1000Base-T RJ-45 (Auto MDI/MDIX) port
- 1*1000Base-X SFP port

Power-over-Ethernet

- IEEE 802.3af/at
- 30W max for each port, 60W max for whole switch

High Performance Design

- 6kV surge immunity
- 6kV contact discharge, 8kV air discharge ESD protection
- Metal shell design
- Desktop/wall mounted installation

One-key Smart Mode

- CCTV: the transmission distance is extended up to 250m, but the rate is limited to 10Mbps. This mode supports VLAN (all downlink ports are isolated from each other, but can communicate with uplink ports), network storm control and PoE watchdog.



Features and Highlights

Abundant Interfaces

- UTP3310-PSB: 8*10/100/1000BASE-T PoE+ RJ-45(Auto MDI/MDIX)
2*10/100/1000BASE-T RJ-45(Auto MDI/MDIX)
- UTP3310TS-PSB: 8*10/100/1000BASE-T PoE+ RJ-45(Auto MDI/MDIX)
1*10/100/1000BASE-T RJ-45(Auto MDI/MDIX)
1*1000BASE-X SFP

One-key Smart Mode

- Default: All ports are free to communicate, transmission distance: 0~100m.
- VLAN: Downlink ports are isolated from each other, but can communicate with uplink ports. This mode supports PoE watchdog.



Features and Highlights

Abundant Interfaces

- 24*10/100BASE-T PoE+ RJ-45(Auto MDI/MDIX)
- 2*1000M RJ-45/SFP Combo

Power-over-Ethernet

- IEEE 802.3af/at
- 30W max for each port, 225W max for whole switch

One-key Smart Mode

- Default: All ports are free to communicate, transmission distance: 0~100m.
- VLAN: Downlink ports are isolated from each other, but can communicate with uplink ports. This mode supports PoE watchdog.
- CCTV: the transmission distance is extended up to 250m, but the rate is limited to 10Mbps. This mode supports PoE watchdog.



4/8-Port bt PoE Unmanged Switch: UTP3106-PSD / UTP3210-PSD UTPEPO

Features and Highlights

Abundant Interfaces

- UTP3106-PSD: 4*10/100BASE-T PoE RJ-45(Auto MDI/MDIX)
2*10/100BASE-T RJ-45(Auto MDI/MDIX)
- UTP3210-PSD: 8*10/100BASE-T PoE RJ-45(Auto MDI/MDIX)
2*10/100/1000BASE-T RJ-45(Auto MDI/MDIX)

PoE Mode DIP Switch

- UTP3210-PSD PoE mode can be set by DIP switch.
Mode1: 45W max for each port.
Mode2: 90W max for port 1, disabled PoE function for port 2, 45W max for ports 3 to 8 each.

One-key Smart Mode

- Default: All ports are free to communicate, transmission distance: 0~100m.
- VLAN: downlink ports are isolated from each other, but can communicate with uplink ports. This mode supports PoE watchdog.
- CCTV: the transmission distance is extended up to 250m, but the rate is limited to 10Mbps. This mode supports PoE watchdog.



4-Port High Power bt PoE Unmanaged Switch: UTP3306TS-PSDUTEPO

Features and Highlights

Abundant Interfaces

- 4*10/100/1000Base-T RJ-45 (Auto MDI/MDIX) PoE++ ports
- 1*10/100/1000Base-T RJ-45 (Auto MDI/MDIX) port
- 1*1000Base-X SFP port

Power-over-Ethernet

- IEEE 802.3af/at/bt
- 90W max for each port, 360W max for whole switch

Q-PoE (Quick PoE)

- The switch supports the Q-PoE (Quick PoE) technology, which enables PoE power supply immediately upon switch startup without waiting for switch system software control.

One-key Smart Mode

- CCTV: the transmission distance is extended up to 250m, but the rate is limited to 10Mbps.



截图 Shift+Alt+A



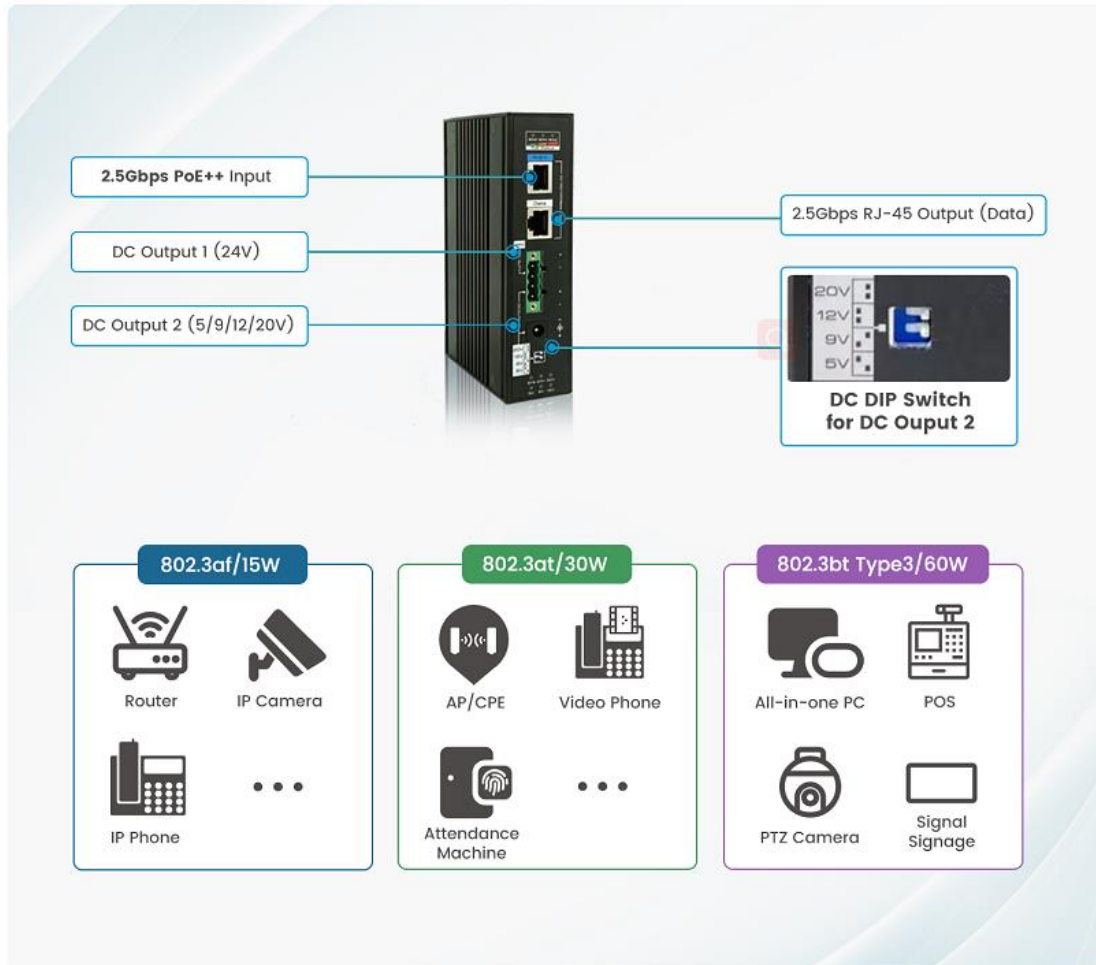
New Products: Accessories



Industrial 2.5Gbps BT PoE++ Splitter

IEEE 802.3bt PoE++ Solution, DC Output Selectable Design

Compatible with the IEEE 802.3bt PoE standard, the UPD7301-PDD takes the power delivered from the PoE++ input port and converts the **90W 802.3bt PoE++** to a max. **60W DC power** via the DC jack and terminal block, with a DC DIP switch in the panel to select an output range of **5/9/12/20/24V**.

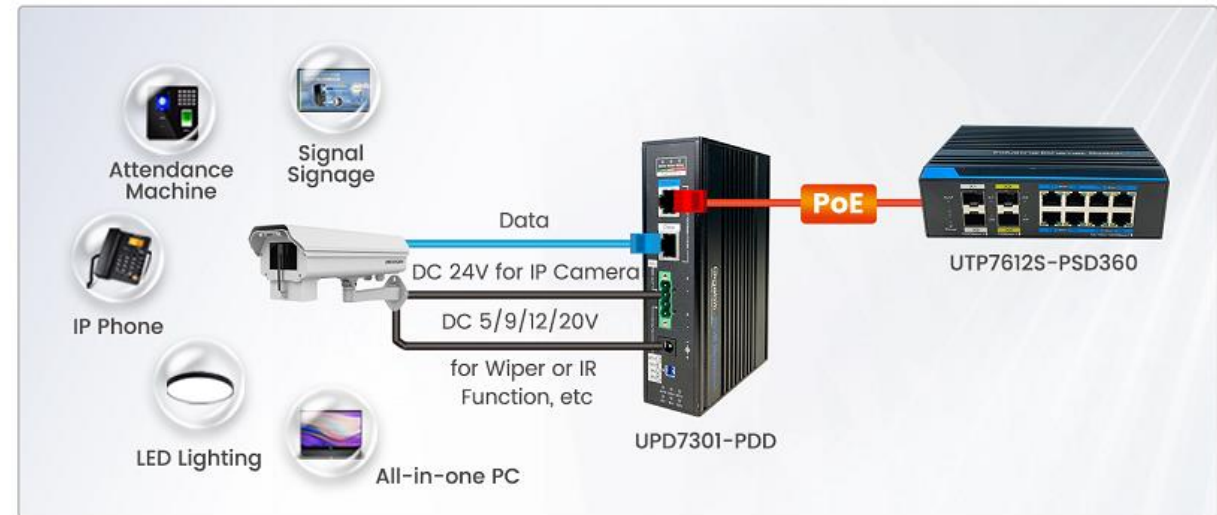


New Release: UPD7301-PDD



Dual DC Power Output Design

The splitter supports dual DC power output with a shared power of 60W max to power two non-PoE devices simultaneously through DC jack and terminal blocks in specific applications and demands, like the outdoor IP camera with additional features such as wiper or IR, PTZ + IP camera, IP camera + IP video server, etc.



UPI3301-PSD 90W Multi-Gigabit PoE Injector

UTEPO

Support IEEE 802.3bt

The UPI3301-PSD delivers the Ethernet digital data with 54V DC power over the cables, specifically to meet the demand for growing higher power required network equipment.

Splicing Design

There are slot and bulgy junction set on opposite sides of the PoE injector, which enables you to combine them and made a neat line to the convenient management in case more injectors are installed.

Excellent Performance of Protection and Anti-interference

Support 6kV surge protection and 8kV ESD protection, ensuring the stable operation.



04

New Solutions



Home Solar Power and Communication Solution

UTEPO 优特普



A comprehensive solution that integrates communication, power supply, and solar system monitoring capabilities.

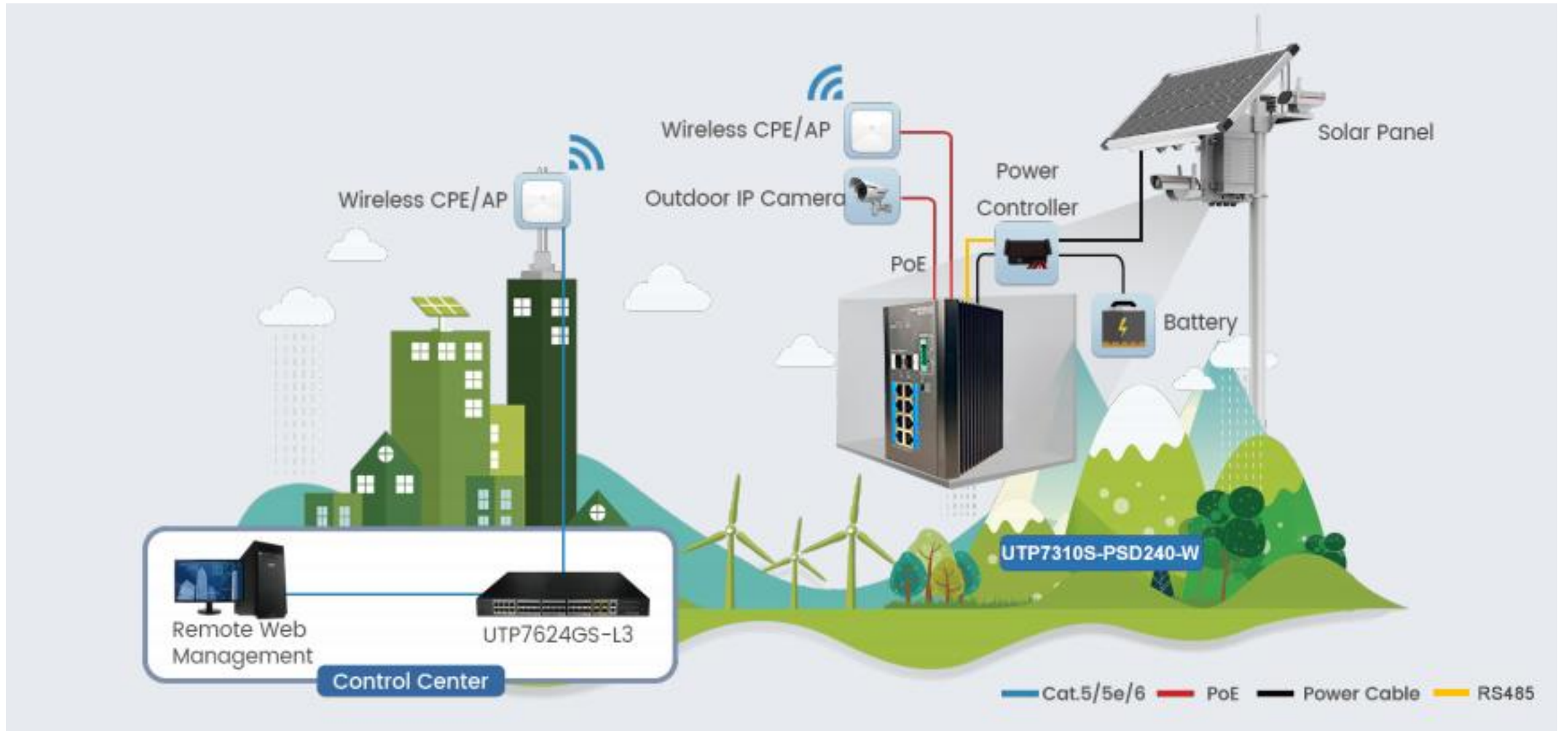
The POE Switch (UTP7310S-PSD240-W) supports a wide voltage range of 12V to 57V, allowing seamless integration with solar panels, MPPT solar controllers, and batteries to build 12V/24V/48V solar energy systems.

The solar panel not only powers the switch but also charges the batteries for energy storage. The PoE technology of the switch delivers power and communication through Ethernet cables to devices such as cameras, access points (APs), and lighting fixtures. The switch also offers a visualized monitoring interface to track the status and energy consumption of the entire energy storage system.

The switch supports redundant power supply, allowing the connection of an additional DC power source as a backup. In the event of the main power source (solar energy + battery) being depleted, the switch automatically switches to the backup power source, ensuring uninterrupted power supply and communication.

Solar Solution for Smart Pole

Green Solar Application



05

Products in Development



Switches with 802.3af/at/bt and Passive POE

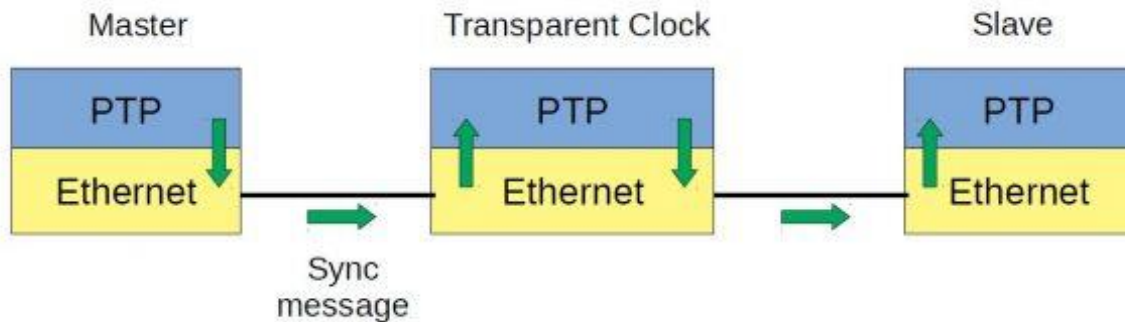
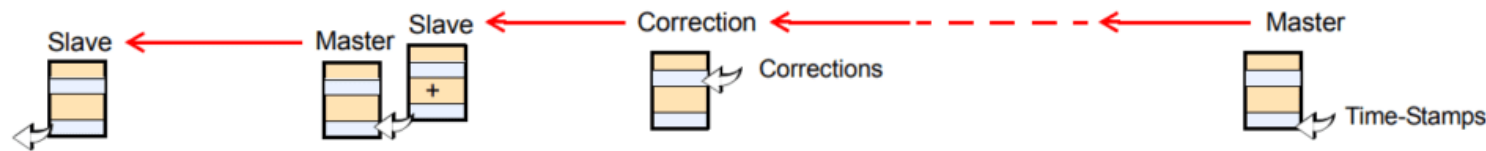
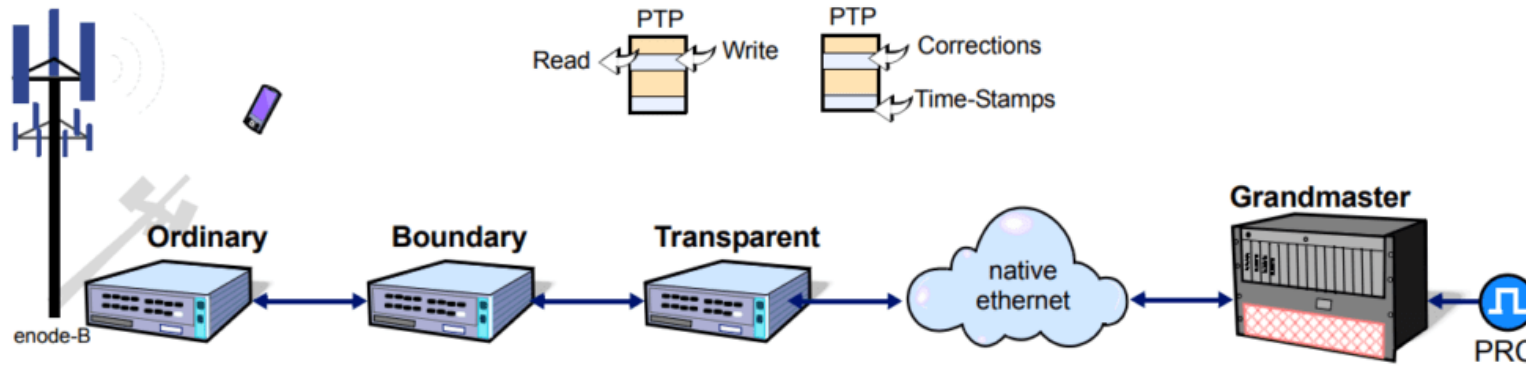
	8 Port	16 Port
		
Input Voltage	12-57VDC	100-240VAC 50/60Hz and 48-57VDC
Ethernet Port	8 x Gigabit Ports + 2 x 2.5Gb SFP	16 x Gigabit Ports + 4 x 1Gb SFP Ports
PoE Ports	1-4: 802.3bt 90W or 54V 30W Passive PoE (User Settable) 5-8: 802.3at 30W or 24V 15W Passive PoE (User Settable)	1-4: 802.3bt 90W 5-16: 802.3at 30W or 54V 30W or 24V 15W passive PoE
Total Power	12V Input = 60W Max 24V Input = 120W Max 48V Input = 240W Max	400W Max
ESD Protection	15kV Air / 8kV Contact	15kV Air / 8kV Contact
Surge Protection	IEC61000-4-5, Data Port: ±6kV	IEC61000-4-5, Data Port: ±6kV
L2 Management	Per UTEPO Specification # UTP7310S-PSD240-sPoE-W	Per UTEPO Specification # UTP6520GE-PSD400-sPoE
Operating Temperature	-40 to +75°C	-30 to +65°C
Storage Temperature	-40 to +85°C	-40 to +85°C
Operating Humidity	5% to 95% non condensing	5% to 95% non condensing
Mounting	DIN Rail Bracket, Wall Mount Brackets	1U 19" Rack Mount
Size (L x W x H)	110 x 95.1 x 163mm	442 x 320 x 44mm

IP67 btPOE Repeater

- Input: 10/100/1000Base-T RJ-45 POE++
- Output:
 - Model 1: 1*10/100/1000Base-T RJ-45 POE++
 - Model 2: 2*10/100/1000Base-T RJ-45 POE++
- POE Standard: 802.3af/at/bt
- Input Power: 90W max (POE type 4)
- Output Power: 60W max per port (POE type3)
- Transmission: 100m
- Ingress Protection: IP67
- Operating Temperature: -20°C~60°C



1588v2 PTP Switch



- Standard: IEEE 1588v2 Precision Time Protocol
- Use Cases:
 - ✓ Industrial Automation
 - ✓ Intelligent Transportation System

USB Switch

- 16 * USB 3.0 ports for high-speed wired internet connectivity
- USB ports provide 5V/2A charging capability
- 4 * Gigabit uplink port for high-speed forwarding, no latency during gaming and live streaming
- Compatible with iOS/Android systems, with specially designed cables to connect various mobile devices
- Supports 2 working modes: standard switch mode and VLAN isolation mode

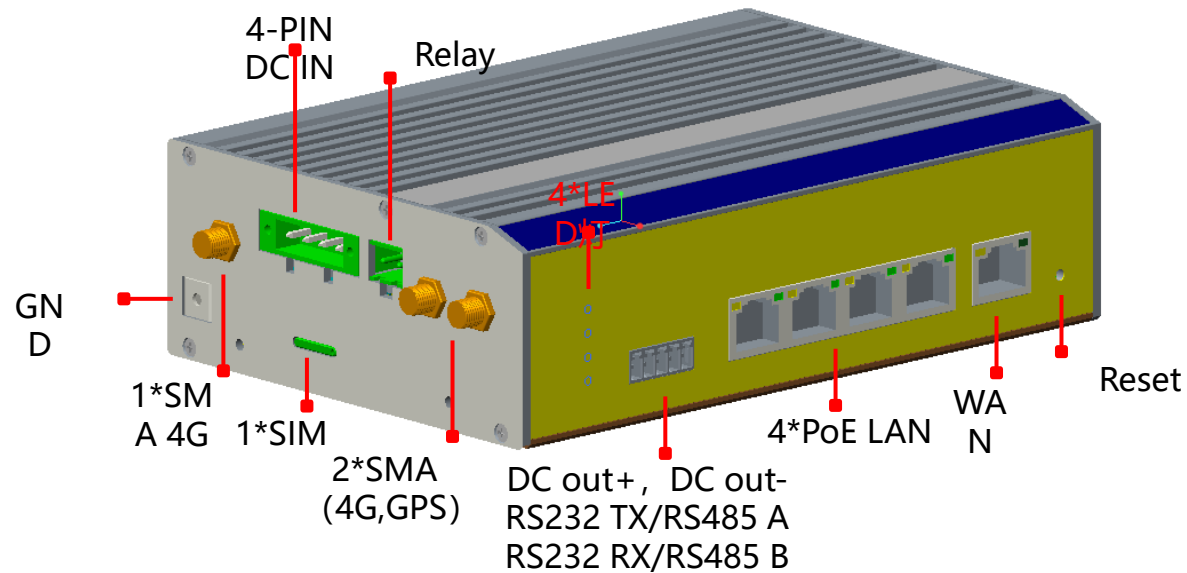




Products in Planning



4G Industrial Router



- Industrial 100M 4G router.
- Integrating an embedded cellular modem and SIM function
- 4G cellular network SMA antenna.
- 1 10/100Mbps WAN
- 4 10/100Mbps LAN
- RS-485/232 Modbus
- DI/DO connector
- Compact and rugged design
- Suitable for various M2M/IoT applications, such as retail markets, vending machines, ATM machines, gas stations, construction sites, oil stations, etc.

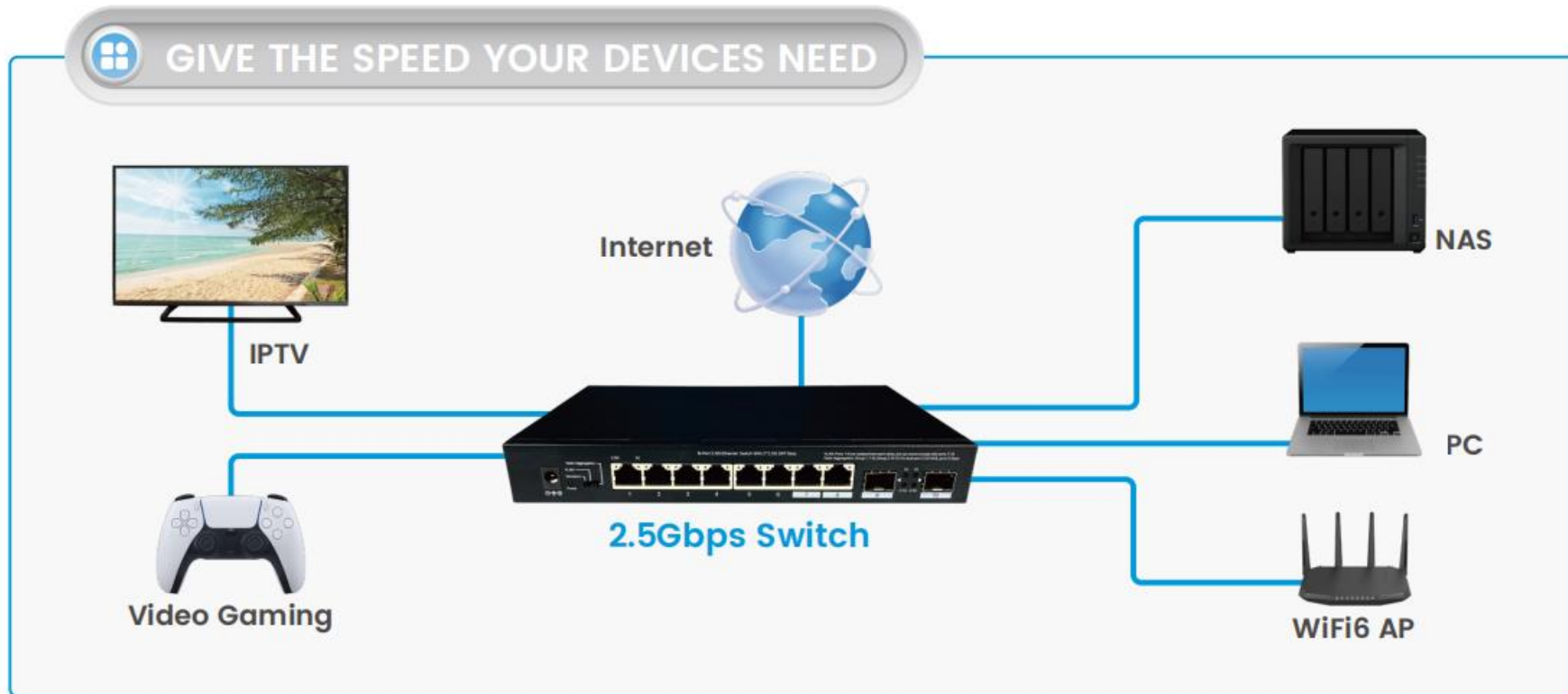


- The network management solution includes:
 - **Network management Software** (to be installed on a local server or virtual machine for private access)
 - Network management hardware controller (server or tablet)
 - **Cloud App** (public cloud access)
- Required Functionalities:
 - Setup Wizard
 - Device Discovery
 - Account Management
 - Dashboard
 - Topology View
 - Device List
 - Batch Configuration
 - Map View
 - System Statistics
 - Alarm Management
 - System Log
 - Network Maintenance: upgrade, troubleshooting

Multi-Gigabit Switch



- Downlink 10/100/1000/2500Base-T RJ-45
- Used for high speed WiFi6 WiFi7 AP
- NAS networking



EN50155 M12 Ethernet Switch for Rail



M12 Power Supply

8 * M12 Ethernet Port

The M12 connector provides tightly, strong connection and guarantees stable ethernet operation performance under high vibration and shock environment such as public Transmission System and Railway Transmission.

UTEPO

JUST MAKE IT SIMPLE

THANKS!

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