# 8-Port 10/100Mbps with 4-Port PoE+ Ethernet Switch (60W)

Cost-effective Centralized Power Distribution

This switch is equipped with **eight 10/100BASE-TX** ports, four of which are

802.3at PoE+ copper interfaces. For cost saving and flexible use of PoE power

provision, half of the 10/100Mbps TP ports of the switch provide PoE power

injector function which is able to drive 4 IEEE 802.3at/af compliant powered

devices. For SOHO or department network, the switch also provides a simple,

cost-effective and highly-reliable network connection for data as well as power.

Furthermore, it is the ideal device for bridging Ethernet and Fast Ethernet

workgroups or networks.
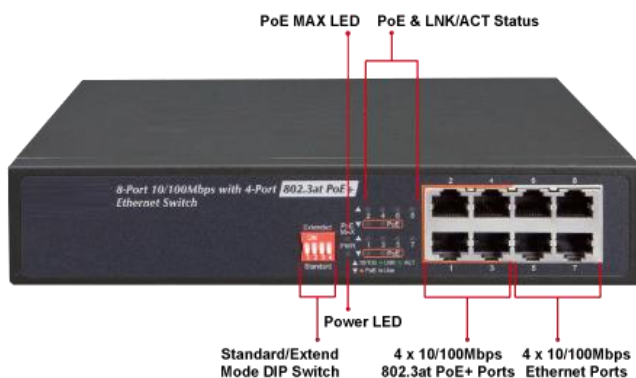
Ethernet Data Transmit Distance Extension

The built-in solid DIP switch provides **"Standard"** and **"Extend"** operation

modes. The switch operates as a normal IEEE 802.at/af PoE Switch in the

"Standard" operation mode. In the **"Extend"** operation mode, the switch

operates on a per-port basis at 10Mbps duplex operation but can support 30-watt

PoE power output over a distance of up to 200 meters overcoming the 100m limit

on Ethernet UTP cable. With this brand-new feature, the switch provides an

additional solution for 802.3at/af PoE distance extension, thus saving the cost of

Ethernet cable installation.

Physical Port

- **8-port 10/100BASE-T** Fast Ethernet RJ45 copper
- **4-port IEEE 802.3at/af** PoE Injector (Port-1 to Port-4)
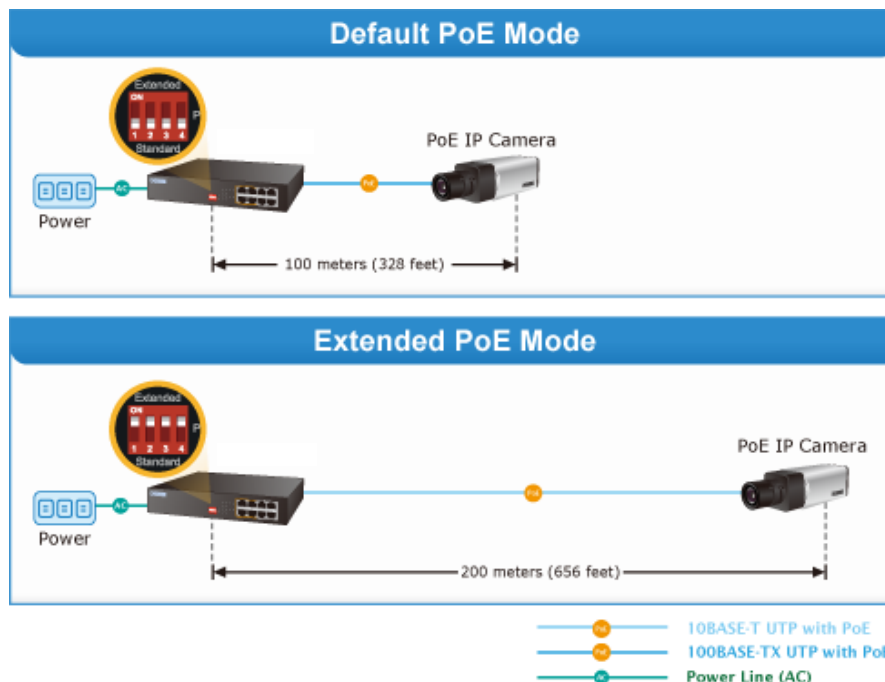
Power over Ethernet

- Complies with IEEE 802.3af/at Power over Ethernet end-span PSE
- Up to 4 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE Power up to 30.8 watts for each PoE port
- Each port supports 53V DC power to PoE powered device
- 60-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m with standard mode, 200m with extended mode

Switching

- Hardware based 10/100Mbps auto-negotiation and auto MDI/MDI-X
- Flow control for full duplex operation and back pressure for half duplex operation
- IEEE 802.1Q VLAN transparency
- Hardware DIP switch for "**Standard**" and "**Extend**" mode selection; the "**Extend**" mode features 30-watt PoE transmit distance of 200m at speed of 10Mbps (Only for Port1 – Port4)

Hardware

- 8.5-inch desktop size, 1U height, rack mountable
- LED indicators for system power, per port PoE ready and PoE activity, speed, Link/Act
- Fanless design
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)
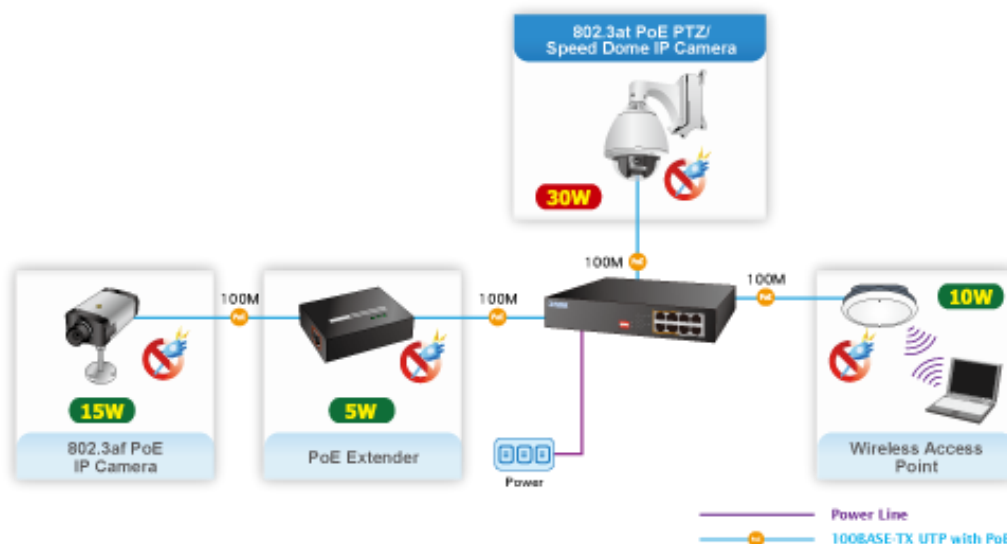- Supports 4000VDC Ethernet ESD protection

Default PoE Mode

Extended / Standard

PoE IP Camera

Power

← 100 meters (328 feet) →

Extended PoE Mode

Extended / Standard

PoE IP Camera

Power

← 200 meters (656 feet) →

10BASE-T UTP with PoE
100BASE-TX UTP with PoE
Power Line (AC)

Environment-friendly, Fanless Design for Silent Operation

The switch comes with a desktop-sized, compact metal housing, making the placement of the unit convenient. It features a ventilated construction in which a cooling fan is not necessary, thereby making its operation noiseless. Moreover, the switch is able to operate reliably and stably in any environment without affecting its performance. The deployment of PoE PDs with constant power feeding can be easily and quickly done.
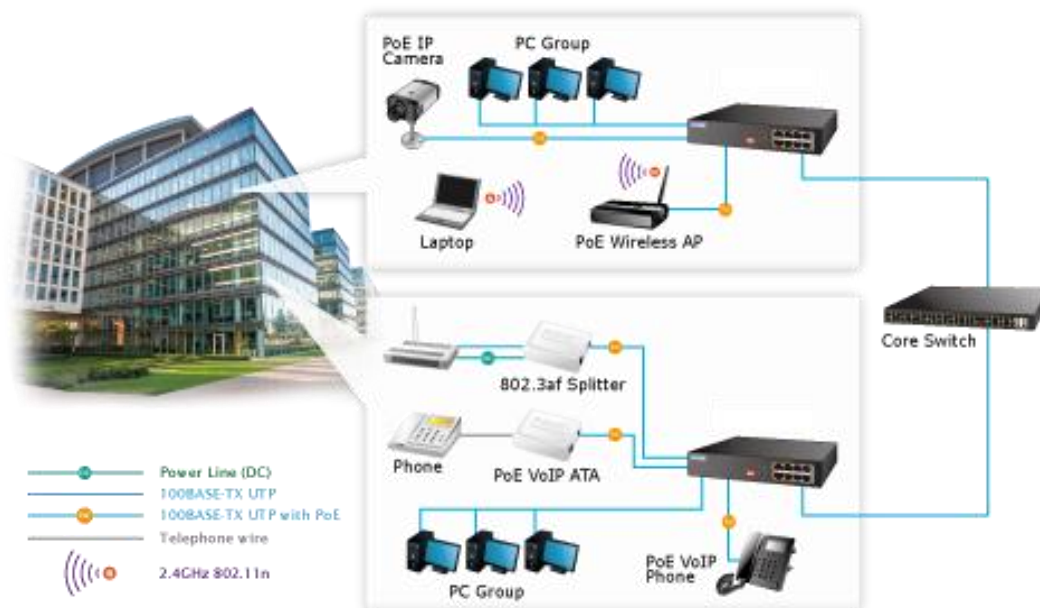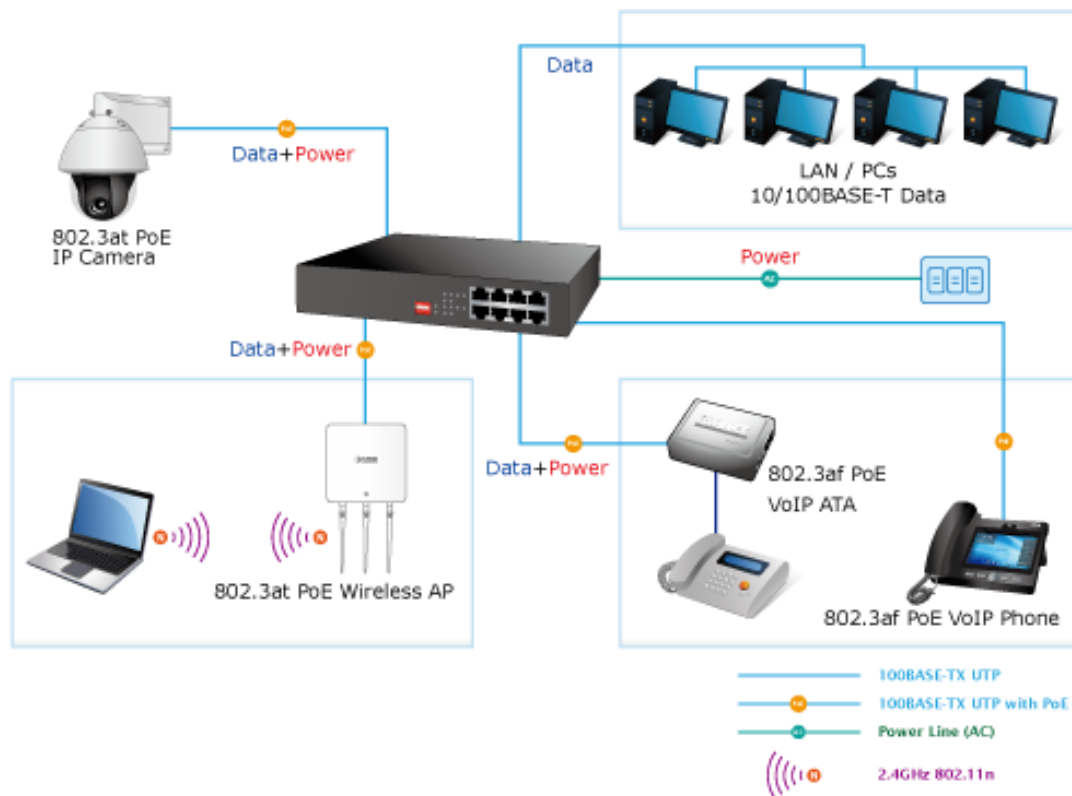
Easy Cable Connection

With data switching and power over Ethernet integrated into one unit, the switch reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. With 4 PoE interfaces, the switch is ideal for small businesses and workgroups making the deployment of the PoE facility including wireless access points, IP-based surveillance camera and IP phones in any places easier, more efficient and more cost-effective.

802.3at PoE PTZ/
Speed Dome IP Camera

30W

100M

802.3af PoE
IP Camera
15W

100M

PoE Extender
5W

100M

Power

100M

Wireless Access
Point
10W

Power Line
100BASE-TX UTP with PoE

Applications

Department/Workgroup PoE Switch

Providing four 802.3at PoE+ in-line power interfaces, the switch can easily build a power source that centrally controls the enterprises' IP phone systems, IP camera systems and wireless AP systems. For instance, up to 4 cameras can be installed around the corner in the company for surveillance demands or up to 4 wireless APs can be built to have a wireless roaming environment in the office. Without the power-socket limitation, the switch makes the installation of cameras or wireless APs more easily and efficiently.

Specifications

Hardware Specifications	
Hardware Version	4
10/100BASE-TX MDI/MDIX Ports	8
PoE Injector Port	4 ports with 802.3at/af PoE injector function with Port-1 to Port-4
Switch Architecture	Store-and-Forward
Switch Fabric	1.6Gbps/non-blocking
Switch Throughput@64 bytes	1.19Mpps@64 bytes
MAC Address Table	1K entries, automatic source address learning and aging
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex

LED	**System**:
	  Power (**Green**)
	  PoE max. (**Green**)
	10/100BASE-T RJ45 Interfaces:
	  10/100Mbps LNK/ACT(**Green**)
	  PoE Interfaces:
	  PoE-in-Use (**Orange**)
	  ESD Protection 4KV DC

DIP Switch	Selectable operation mode ■ Standard ■ Extended
Dimensions (W x D x H)	215 x 133 x 42 mm (1U height)
Enclosure	Metal
Weight	880g
Power Requirements	AC 100~240V, 50/60Hz, 2A max.
Power Consumption/Dissipation	Max. 65 watts/223 BTU
Thermal Fan	Fanless
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	End-span
PoE Power Output	Per port 53V DC, 600mA. max. 30 watts
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	60 watts
Max. Number of Class 2 PDs	4
Max. Number of Class 3 PDs	4
Max. Number of Class 4 PDs	2
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow control and back pressure IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE)
Environment	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

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