EX75900 – Product kit

Agenda

1 EX75900 Overview

2 Key Features Introduction

3 EX75900 Application

4 EX75900 Variance

5 Q&A

EX75900 Overview

Hardened Managed 28 port Gigabit PoE switch

- ☑ **EX75900 is a full gigabit with 60W PoE Ethernet switch for increasing PoE demand and high-speed communication networks**

- ☑ **PoE compliance to IEEE 802.3bt for wide range applications**

- ☑ **Supporting : VRRP, OSFP, RIP v1/v2, Static routing**

- ☑ **Gigabit supports up-to 10G uplink**

- ☑ **Rugged design with Hardened grade (-45C~+75C)**

EX75900 Overview

24-port 10/100/1000Base-T PoE 60W

1 x USB port (Type A)

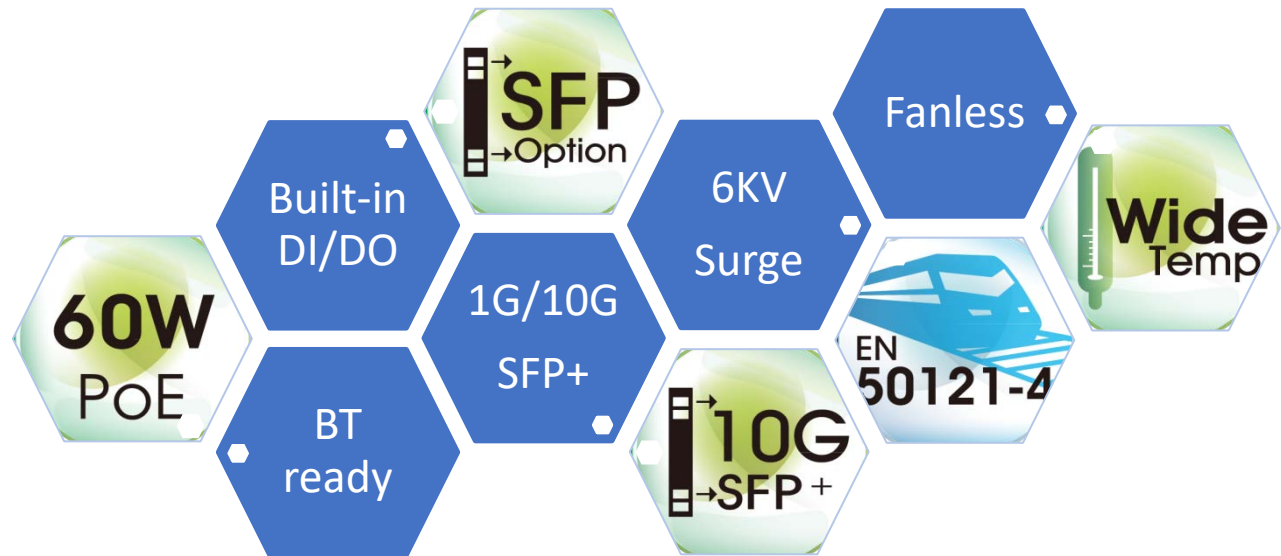44.2mm

270mm

442mm

4-port dual rate 1G/10G SFP+

c UL us
LISTED

EX75900 Overview

GND

3 PIN Relay Output

2 x Digital Input ports

52-57VDC Terminal block

Key Features Introduction

- ☑ **IEEE 802.3bt High power PoE Switch**

- ☑ **6kV surge protection on PoE**

- ☑ **Intelligent PoE features**

- ☑ **Integrated with DnA function**

- ☑ **Dual rate SFP+ (1G/10G) scalability**

IEEE 802.3bt high power PoE switch

New feature added for Type 3 and Type 4

- **Auto Class**
- **Extended Power**
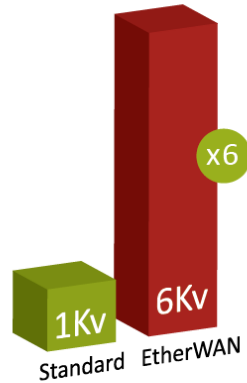- **Low MPS**
(Maintain Power Signature)

60W PoE

Type			PSE Class		PD Class	
4			90W		71W	802.3bt
			75W		62W	
3			60W		51W	
			45W		40W	
	2		30W		25W	802.3at
			15W		13W	
		1	7W		6.5W	802.3af
			4W		3.5W	

EX75900

6kV surge protection on PoE

EtherWAN solution :

An embedded 6kV surge protection can protect against electronic interference.
Each copper port can endure a 6kV surge and protect the equipment that at
standard deployment.

x6

1Kv

6Kv

Standard EtherWAN

6KV

6Kv Surge Immunity

Shield Twisted Pair cable

Intelligent PoE features

PoE Scheduling

PoE Scheduling allows PoE ports to have their power up time scheduled by hour of the day and day of the week.
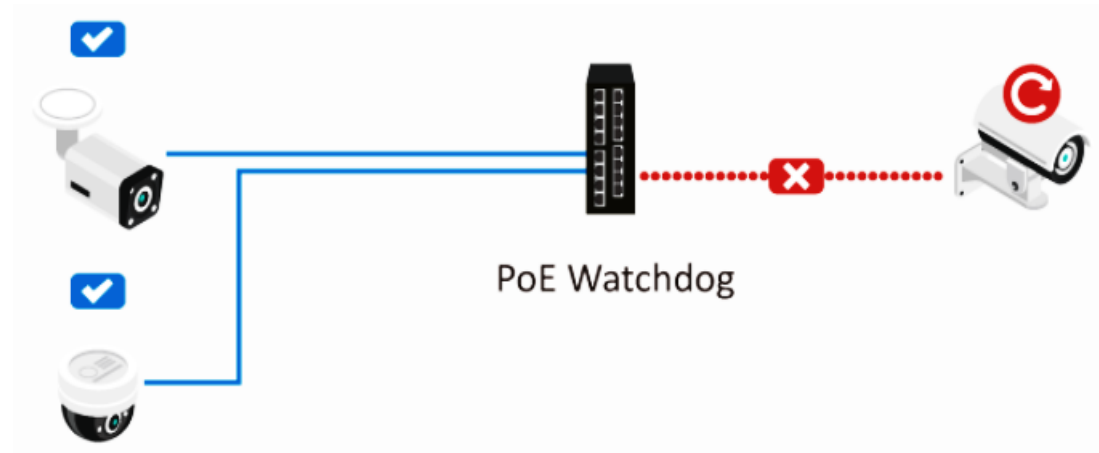
PoE Scheduling

PoE Watch dog

Automatically check and reboot PD when camera does not respond, allowing the administrator to reduce urgency and frequency.

PoE Watchdog

PoE Per Port Scheduling

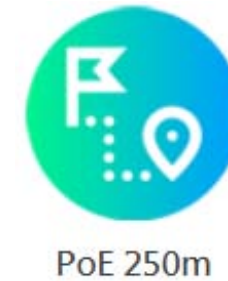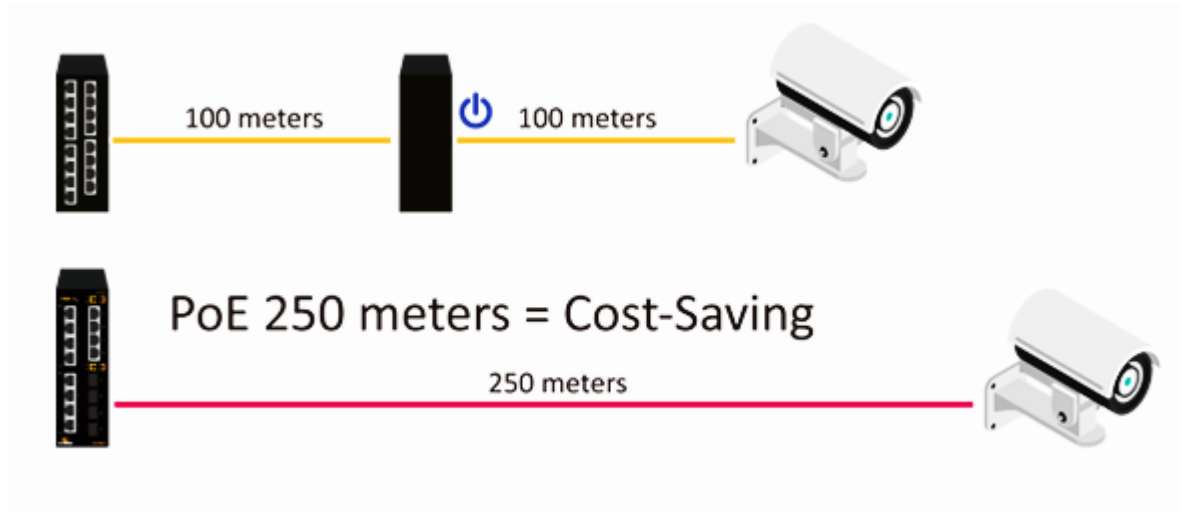| Port: fe1 ▼	Status: Not Scheduled	
Ti— fe1 fe2	Sun	Mon
00 fe3		
01 fe4 fe5		
02 fe6		
03 fe7 fe8		
04:00		
05:00		

PoE Watchdog

Intelligent PoE features

PoE Transmission over 250 Meters
When Extend Mode is enabled, a single PoE port can support a transmission distance of 250 meters with easy-to-use and cost-saving.

Eliminates need for additional switches or repeaters for long distance connections

100 meters   100 meters

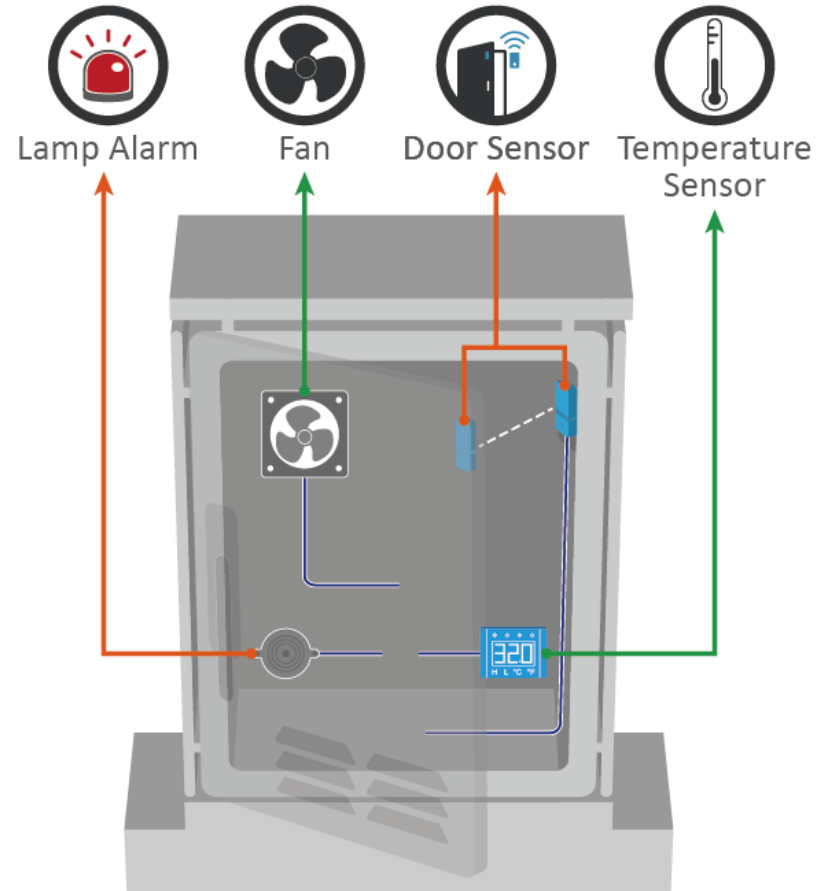PoE 250 meters = Cost-Saving

250 meters

PoE 250m

It is suggested to pre-test the function before deployment. The maximum available transmission distance of PoE depends on the negotiation result of PD and PSE. Some PDs using EtherWAN PoE/PSE switches may only support a standard distance of 100 meters. Contact EtherWAN if assistance is needed.
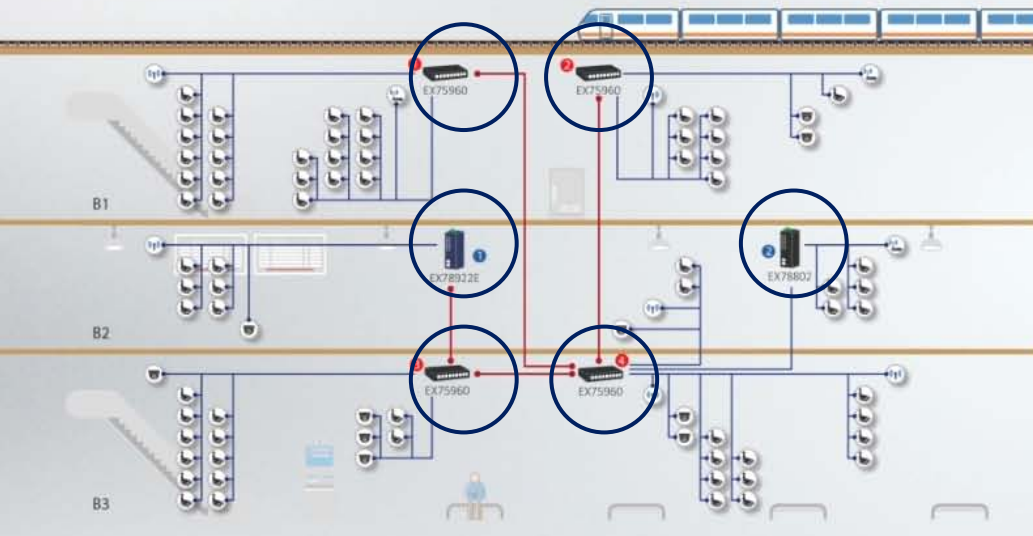
Integrated with DnA function

EtherWAN solution:

Integrated with 2DIs (Digital input) and Relay Output interfaces for intelligent alarm system & notification.
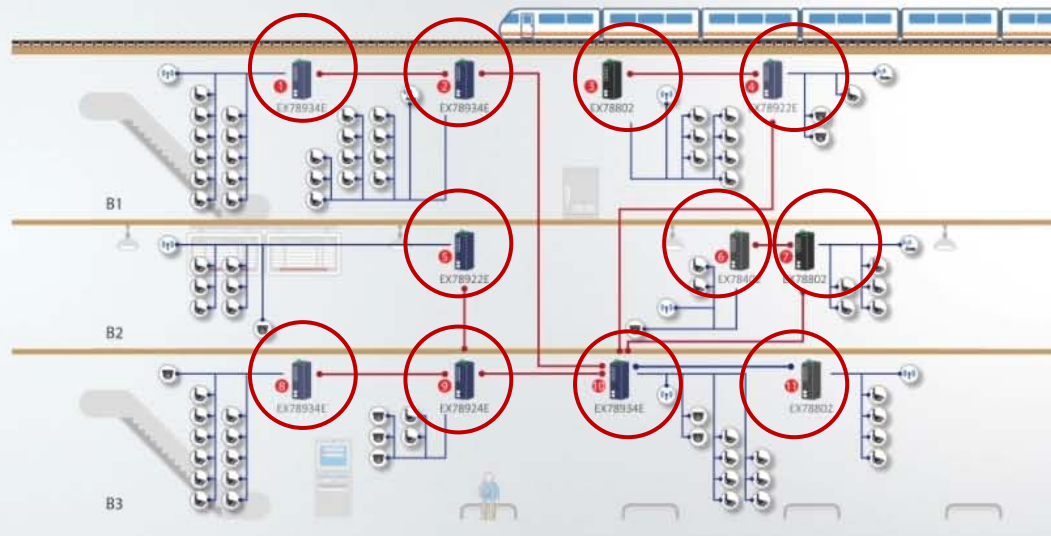

Lamp Alarm   Fan   Door Sensor   Temperature Sensor

EX75900 Application

With EX75900 Solution

2x 8 port + 4x >8 port
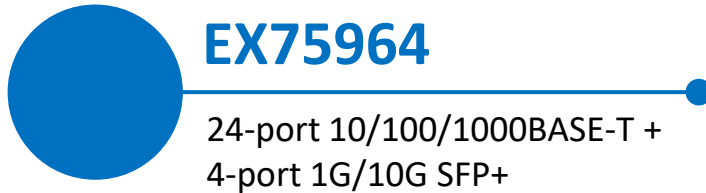**Total 6 maintenance points**

Old Solution

8x 8 port + 3x >8 port
Total 11 maintenance points

EX75900 Variance

The EX75900 is equipped with 24 Gigabit Ethernet (PoE) ports and up to 4 1G/10G SFP+ ports, making it ideal for migration from an existing network to Gigabit speed or building a new full Gigabit backbone.

Total PoE power budget : 720W

EX75964

24-port 10/100/1000BASE-T +
4-port 1G/10G SFP+

EX75960

24-port 10/100/1000BASE-T +
4-port 1G SFP

Q&A

Q : How do we provide power to EX75900?

We can connect two 480W power supply to EX75900 as power feeding. Twisted both (-) to EX75900 PWR1 (-) and same way of doing for (+). For instance, four 480W power supply will be required for redundant application.

Twisted Negative (-)

Twisted Positive (+)

Twisted Negative (-)

Twisted Positive (+)