



EtherWAN

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EX78900E – Product kit



Agenda



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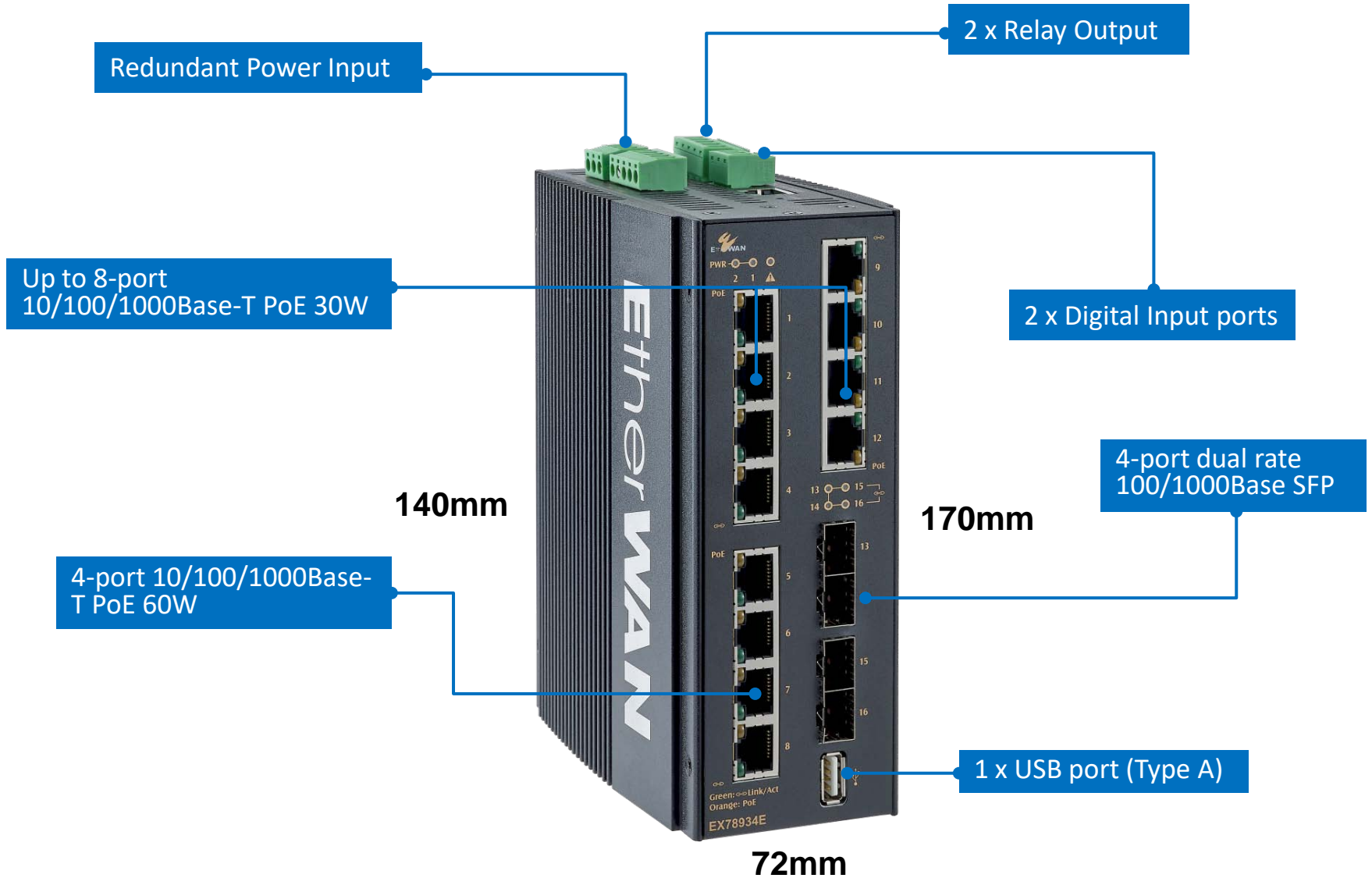
EX78900E Variance

EX78900E Overview

Hardened Managed 10 to 16 port Gigabit PoE switch

- ✓ **EX78900E 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**
- ✓ **Rugged design with Hardened grade (-45C~+75C)**

EX78900E Overview



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 (100/1G Mbps) 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)

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

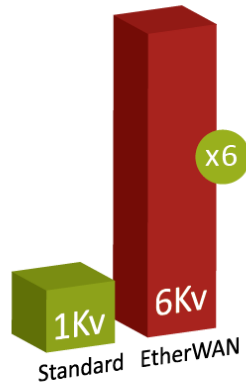
60W PoE

EX78900E

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.



6Kv Surge Immunity



Shield Twisted Pair cable

Intelligent PoE features



PoE Scheduling

PoE Scheduling

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

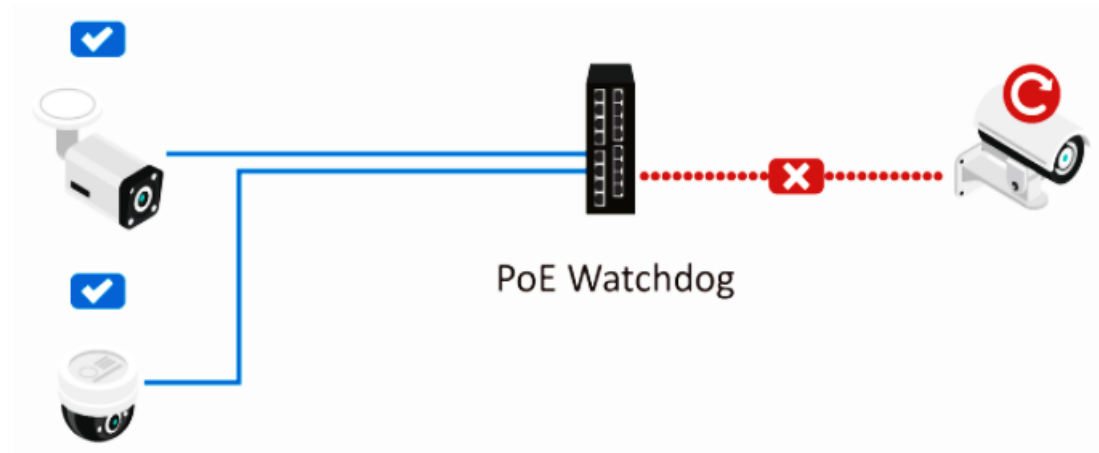


PoE Watchdog

PoE Watch dog

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

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

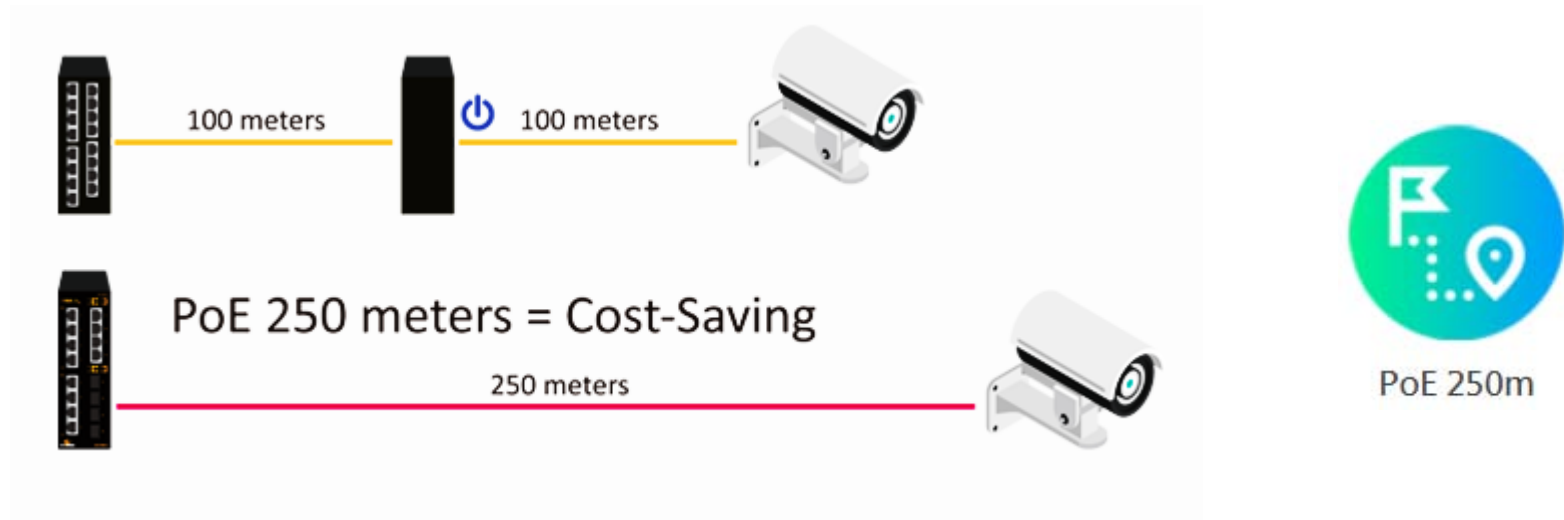


Intelligent PoE features

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

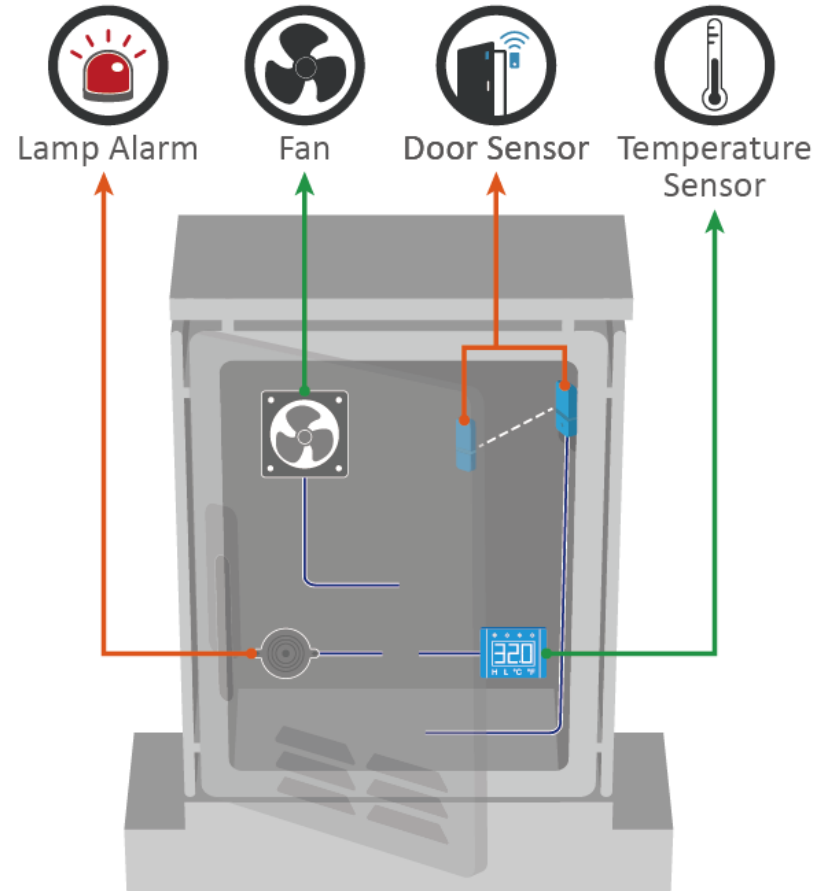


It is suggested to pre-test the function before deployment. The maximum available transmission distance of PoE depends on the negotiation result of PD and PSE. Some PDs using EtherWAN PoE/PSE switches may only support a standard distance of 100 meters. Contact EtherWAN if assistance is needed.

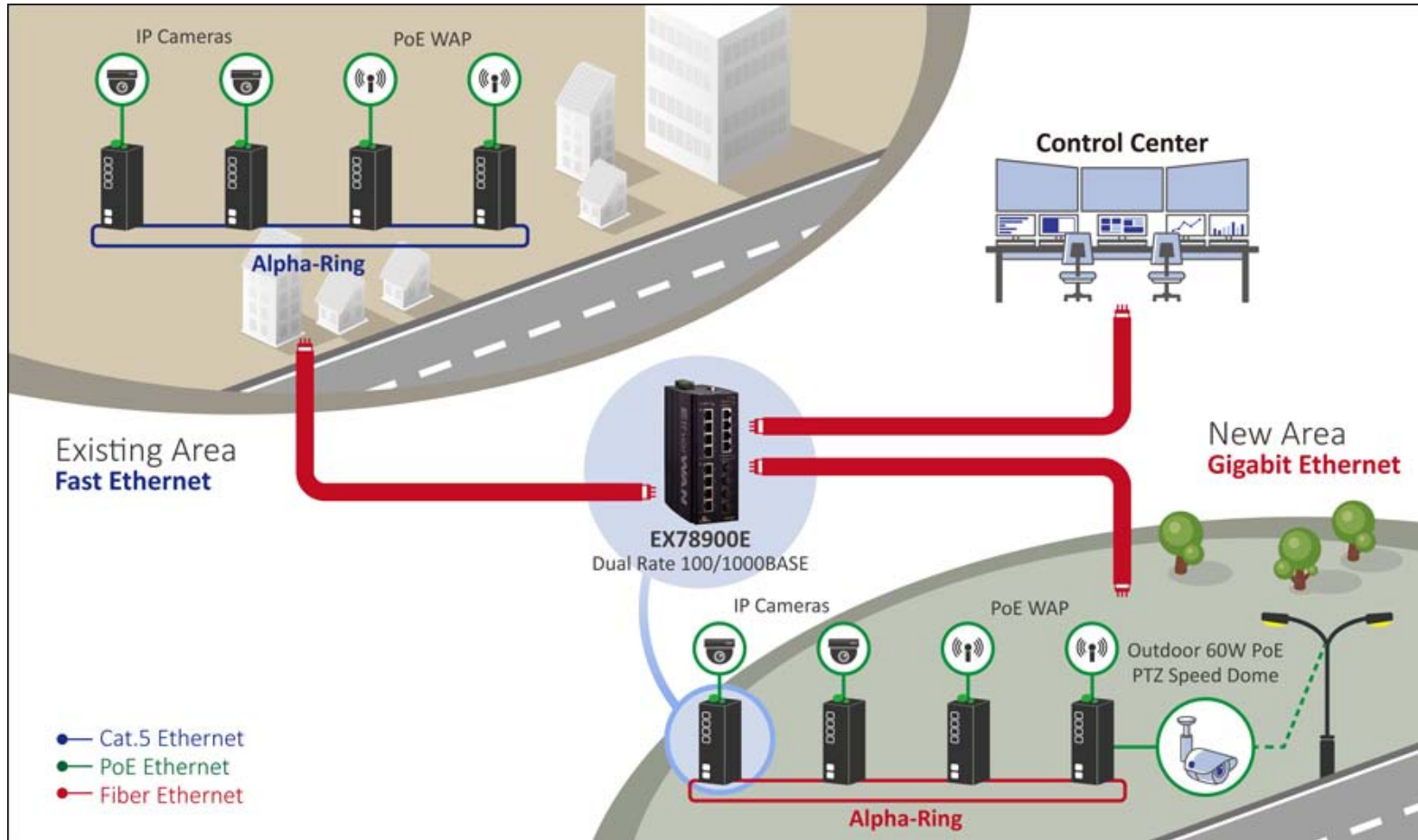
Integrated with DnA function

EtherWAN solution:

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



EX78900E Application



EX78900E Variance

The EX78900 expansion mode is equipped with 12 Gigabit Ethernet (PoE) ports and up to 4 100/1G Mbps 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 : 240W



EX78934E

12-port 10/100/1000BASE-T(8 x 30W + 4 x 60W)PoE + 4-port 100/1G Mbps SFP



EX78924E

8-port 10/100/1000BASE-T(4 x 30W + 4 x 60W)PoE + 4-port 100/1G Mbps SFP



EX78922E

8-port 10/100/1000BASE-T(4 x 30W + 4 x 60W)PoE + 2-port 100/1G Mbps SFP

