

Welcome

Sistemas PoE y videovigilancia

Parte 2

Antonio Gordillo / 27 Mayo 2021 / Mercadotecnia Automatización

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INSPIRING INNOVATIONS

Webinar IMA Mayo 2021

Sistemas PoE y Videovigilancia Parte 2






Fecha	**27 Mayo 2021**
Hora	16:00
Hora	17:00
Duración	1 hora
Costo	gratuito

Conozca el portafolio de productos Phoenix Contact para realizar PoE

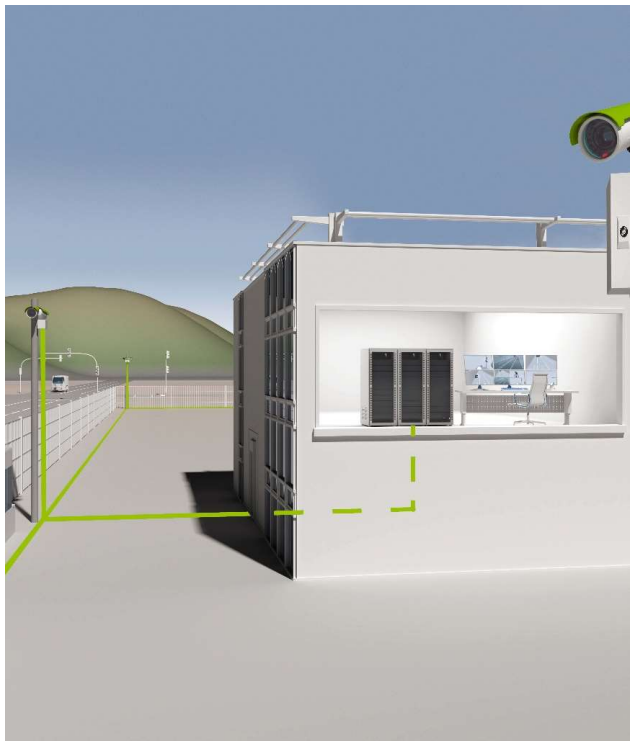
Aprenda a seleccionar los productos más sencillos PoE que puede utilizar para realizar una integración de ellos en una aplicación PoE que cumpla la necesidad de aplicaciones fáciles y sencillas en puntos de requerimiento PoE.

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Webinars

Agenda

- Portafolio de Productos PoE
- Injector
- Unmanaged Swith
- Managed Switch
- Splitter
- Other products PoE

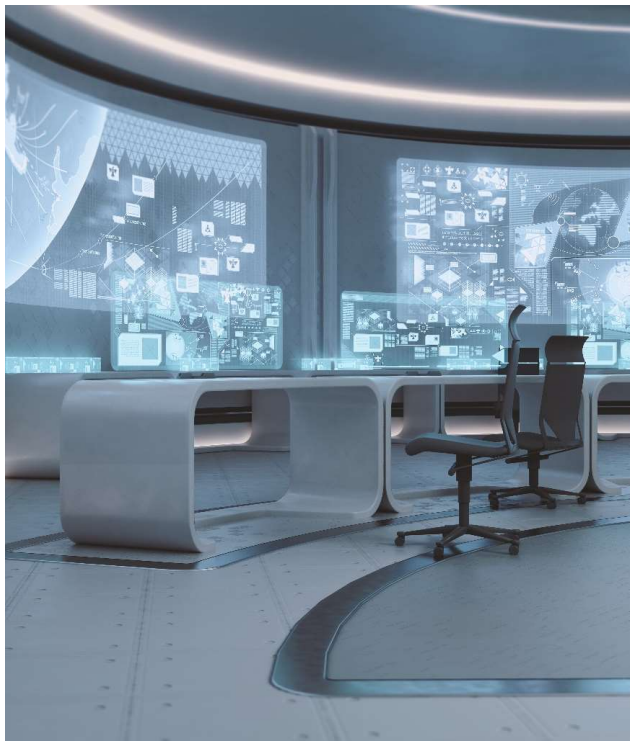


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Surveillance Infraestructure

Overview

- Security
- Access
- Recording
- Process
- Paths
- Warning
- Alarm
- Control
- Actions
- Light
- Dark
- Temperature
- PoE
- Fiber optic
- Cameras
- Wireless
- Control Room
- Doors
- Bars
- Tunnels
- Traffic Light
- Urban Monitoring
- Police
- Fire Department



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Product Portfolio

Phoenix Contact PoE Portfolio











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Product Portfolio

From the Injector to the Splitter



Injectors



Unmanaged Switches



Managed Switches



Splitter



Smart Camera Box

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Product Portfolio

PoE- Injector or switch



Injector

- Plug and play one port
- Hi Power (60W)
- Price advantage by one port
- Patch Panel technology
- Surge protection
- Shield current diagnostics
- galvanic isolation

Unmanaged Switch

- Plug and play several ports
- SFP fiber ports
- Remote monitoring of connected PDs

Managed Switch

- Managed features like redundancy, monitoring, configuration, security
- SFP fiber ports
- Hi Power (60W)
- Prioritize PDs
- Remote control of PDs
- PoE Watchdog
- Force power to non-compliant PDs

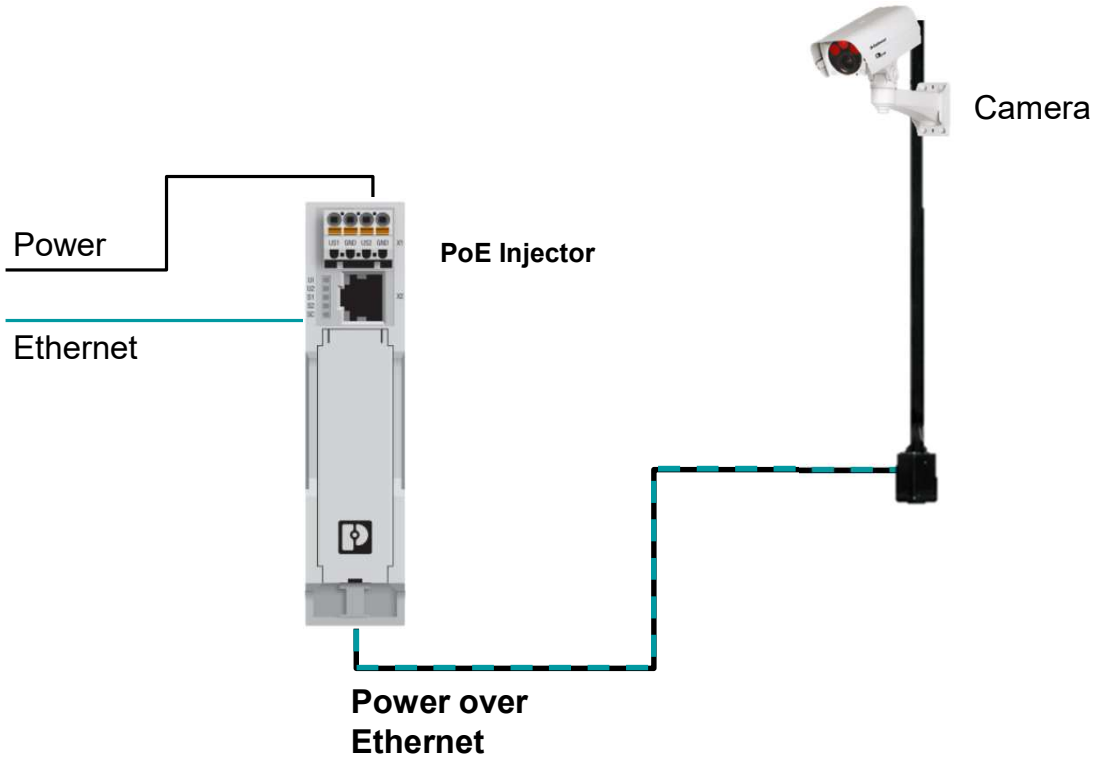
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Product Portfolio

PoE Injectors

Injector

- Plug and play one port
- Hi Power (60W)
- Price advantage by one port
- Patch Panel technology
- Surge protection
- Shield current diagnostics
- galvanic isolation



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Product Portfolio

PoE Injectors

Surge protection

shield current monitoring on the PoE cable side.
An LED indicates differences in potential or other shield currents caused by the effects of EMC



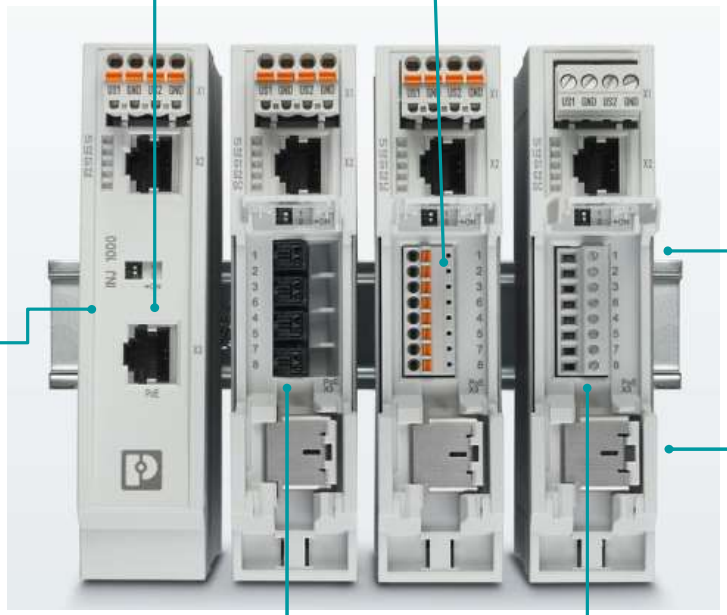
Different performance standards, temperature range and power classes

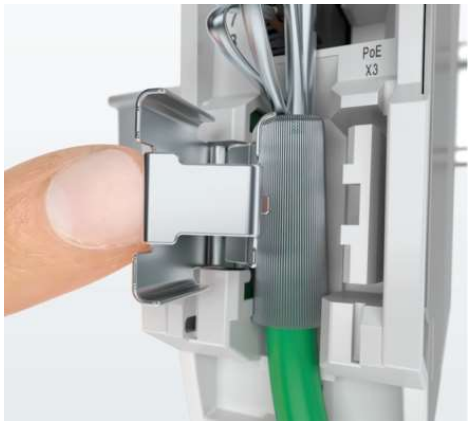
Electrical isolation,
→ Power supply and PoE port are electrically isolated

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Product Portfolio

PoE Injectors



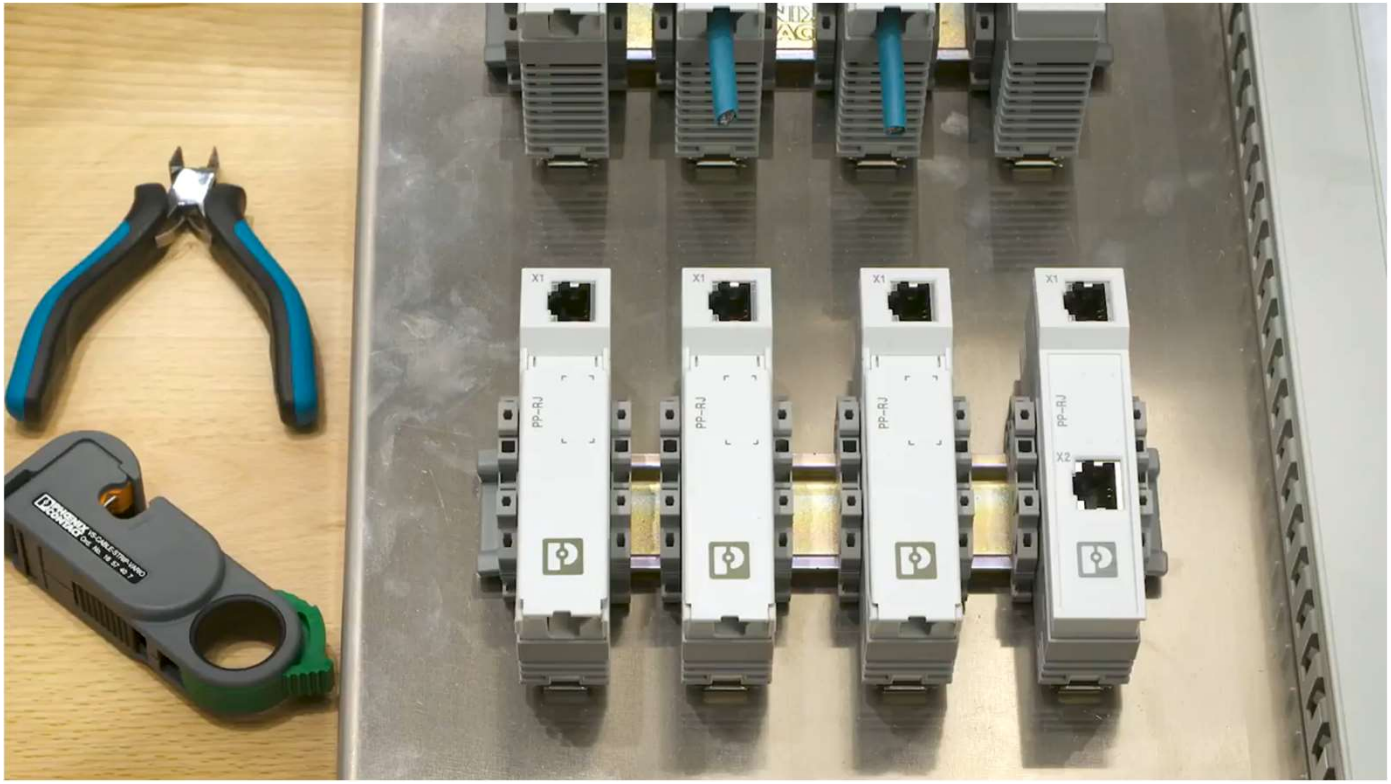


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Cabling Patch Panel

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Cabling Patch Panels …… similar to PoE Injector

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Product Portfolio

PoE Injectors

Webcode: #1789						
Description	**PoE Injector INJ 1000**			**PoE Injector INJ 2000**		
Interfaces	RJ45 / RJ45	RJ45 / RJ45	RJ45 / RJ45	RJ45 / IDC	RJ45 / Push-in	RJ45 / Screw
Temperature range	0 °C ... +60 °C	-40 °C ... +75 °C	-40 °C ... +75 °C	-40 °C ... +75 °C	-40 °C ... +75 °C	-40 °C ... +75 °C
Galvanic isolation	No		Yes			
Surge protect., shield cur.	No			Yes		
Typ Art.-Nr. PoE at/af, 15/30W	INJ 1000 2703005	INJ 1000-T 2703006	INJ 1100-T 2703009	INJ 2102-T 2703012	INJ 2103-T 1004065	INJ 2101-T 2703011
Typ Art.-Nr. PoE++ 60W	INJ 1010 2703007	INJ 1010-T 2703008	INJ 1110-T 2703010	INJ 2112-T 2703014	INJ 2113-T 1004066	INJ 2111-T 2703013



PoE-Injector with
2 Port PoE
10/100 mbps, 2x15W

FL IF 2PSE
2-Port-PoE-Injector,
Extension module for
FL SWITCH GHS
10/100 mbps, 2x15W

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Product Portfolio

Unmanaged PoE-Switches





	FL SWITCH 1708 M12 POE	FL SWITCH 1001-4POE
Ports	8 POE+	4 POE+
Temperature Range	-40 … +70°C	-40 … +75°C
Power supply	24 V DC (18-30 VDC)	18-57 VDC
Protection	IP 67	IP 20
Max Power Data Rate	200 W / 30W max/Port 10/100/1000 mbps	120 W / 30W per Port 10/100 mbps

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Product Portfolio

1000 Series Unmanaged PoE Switch

* USP

1000 Series Unmanaged				
Description	FL SWITCH 1000T-2POE-GT-2SFP	FL SWITCH 1001T-4POE-GT	FL SWITCH 1001T-4POE-GT-SFP	FL SWITCH 1000T-8POE-GT-2SFP
Article	1026765	1026937	1026932	1026929
Ports	2 RJ45 POE x 2 SFP	5 RJ45 (4 POE)	5 RJ45 (4 POE) x 1 SFP	8 RJ45 POE x 2 SFP
Speed	10/100/1000 Mbit/s *	10/100/1000 Mbit/s *	10/100/1000 Mbit/s *	10/100/1000 Mbit/s *
Power Port/Module	30 Watt / 60 Watt	30 Watt / 120 Watt	30 Watt / 120 Watt	30 Watt / 120 Watt
Input Voltage	52 – 57 VDC	18 - 57 VDC *	18 - 57 VDC *	18 - 57 VDC *
Dimensions	42.8 x 100 x 100 *	30 x 149 x 108	30 x 149 x 108	64 x 145 x 136

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POE Updates

Two New Variants

- Galvanically Isolated
- 27mm form factor
- Factory Automation Target



PoE Unmanaged Switches

new

			
Article No.	**1026765**	**1026937**	**1026932**
Type Description	FL SWITCH 1000T-2POE-2SFP	FL SWITCH 1001T-4POE-GT	FL SWITCH 1001T-4POE-GT-SFP
Ports	2 RJ45 POE x 2 SFP	5 RJ45 (4 POE)	5 RJ45 (4 POE) x 1 SFP
Speed	10/100/1000 Mbit/s	10/100/1000 Mbit/s	10/100/1000 Mbit/s
PoE Power Budget	30W per port 60W per Switch	30W per port 120W per Switch	30W per port 120W per Switch
Supply Voltage	55 VDC 52 - 57 VDC	24/48 VDC 18 - 57 VDC	24/48 VDC 18 - 57 VDC
Temperature Range	-40 to 75C	-40 to 75C	-40 to 75C
Dimensions (mm) W x H x D	42 x 100 x 101	30 x 149 x 108	30 x 149 x 100

		
Article No.	**1102077**	**1102079**
Type Description	FL SWITCH 1001-4POE-GT	FL SWITCH 1000-8POE-GT
Ports	5 RJ45 (4 POE)	8 RJ45 POE
Speed	10/100/1000 Mbit/s	10/100/1000 Mbit/s
PoE Power Budget	30W per port 120W per switch	30W per port 120W per switch
Supply Voltage	24/48 VDC 19 – 57 VDC	24/48 VDC 19 – 57 VDC
Temperature Range	-10 to 60C	-10 to 60C
Dimensions (mm) W x H x D	27 x 130 x 120	27 x 130 x 120

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Industrial Ethernet

Unmanaged switches with PoE

new

Web code #1557	Unmanaged Power over Ethernet switches				
	FL SWITCH 1000T-2POE-GT-2SFP	FL SWITCH 1001T-4POE-GT	FL SWITCH 1001T-4POE-GT-SFP	FL SWITCH 1001-4POE-GT	FL SWITCH 1000-8POE-GT
Order No.	1026765	1026937	1026932	1102077	1102079
					
Ports	2 RJ45 POE x 2 SFP	5 RJ45 (4 POE)	5 RJ45 (4 POE) x 1 SFP	5 RJ45 (4 POE)	8 RJ45 POE
PoE Power Budget	30W per port 60W per Switch	30W per port 120W per Switch			
Recommended Power Supply	TRIO-PS-2G/1AC/48DC/5 – 2903159 QUINT4-PS/1AC/48DC/5 – 2904610	**0...90W total POE Power Output:** UNO-PS/1AC/24DC/150W – 2904376 TRIO-PS-2G/1AC/24DC/5 – 2903148 QUINT4-PS/1AC/24DC/5 – 2904600		**91...120W total PoE Power Output** UNO-PS/1AC/24DC/240W - 2904372 TRIO-PS-2G/1AC/24DC/10 - 2903149 QUINT-4-PS/1AC/24DC/10 - 2904601	
Dimensions (W x H x D) Temperature range Power Supply Alarm Contact Degree of protection	42 x 100 x 101 -40 to 75C 52-57V DC, redundant Yes IP30	30 x 149 x 108 -40 to 75C 18-57V DC, redundant Yes IP30	30 x 149 x 100 -40 to 75C 18-57V DC, redundant Yes IP30	27 x 130 x 120 -10 to 60C 19-57V DC No IP20	27 x 130 x 120 -10 to 60C 19-57V DC No IP20
General	All standard FL SWITCH 1000/SFNT functions			All standard FL SWITCH 1000 functions	
LED diagnostics	Link Indication, Data Speed, PoE status, Link Failure			Link Indication, Data Speed, PoE status	
DIP Switch	Enable/Disable alarm per port			No	
QoS	Yes			Yes, Automation Protocol Prioritization	
Packset Size	Jumbo Frames (Frame Size 10240 Bytes/Frame)			Jumbo Frames (Frame Size 9216 Bytes/Frame)	
PoE Designation	PoE+ (IEEE 802.3at)			PoE+ (IEEE 802.3at)	
PoE Mode	Mode A: Power over data pairs			Mode A: Power over data pairs	
Galvanic Isolation	No			Yes	

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Surveillance Infraestructure

PoE portfolio



Video PoE products

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Product Portfolio

4000 Series Managed PoE Switch

* USP

4000 Series Managed			
Description	FL SWITCH 4000T-SFP	FL SWITCH 4000T-8POE-2SFP	FL SWITCH 4004T-8POE-4SFP
Article	1026924	1026923	1026922
Ports	4 RJ45 POE, 1 SFP	8 RJ45 POE, 2 SFP	12 RJ45 (8 POE), 4 SFP
Speed	10/100 Mbit/s RJ45 1000 Mbit/s SFP	10/100 Mbit/s RJ45 1000 Mbit/s SFP	10/100/1000 Mbit/s*
Power Port/Module	60 Watt / 180 Watt*	60 Watt / 180 Watt*	60 Watt / 240 Watt*
Input Voltage	52 – 57 VDC	52 – 57 VDC	52 – 57 VDC
Dimensions	75 x 170 x 152	75 x 170 x 152	68 x 170 x 152 *

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Product Portfolio

4000 Series Managed PoE Switch

* USP

4000 Series Managed			
Description	FL SWITCH 4000T-SFP	FL SWITCH 4000T-8POE-2SFP	FL SWITCH 4004T-8POE-4SFP
Article	1026924	1026923	1026922
Ports	4 RJ45 POE, 1 SFP	8 RJ45 POE, 2 SFP	12 RJ45 (8 POE), 4 SFP

- Power management for each port
- PoE Watchdog
- Diagnostics and alert
- Auto/Forced Modes
- Power Priority
- Power Down Alarm
- Time management to save energy costs

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Product Portfolio

4000 Series Managed Features



Introducing 3 New Managed Features

- PoE Configuration
  - Allows configuration of all PoE functions, by port
- PoE Scheduling
  - Allows PoE power to be scheduled by hour of day and day of week
- PoE Watchdog
  - Allows connected PDs to be monitored, and automatically rebooted or powered off in the event of a failure

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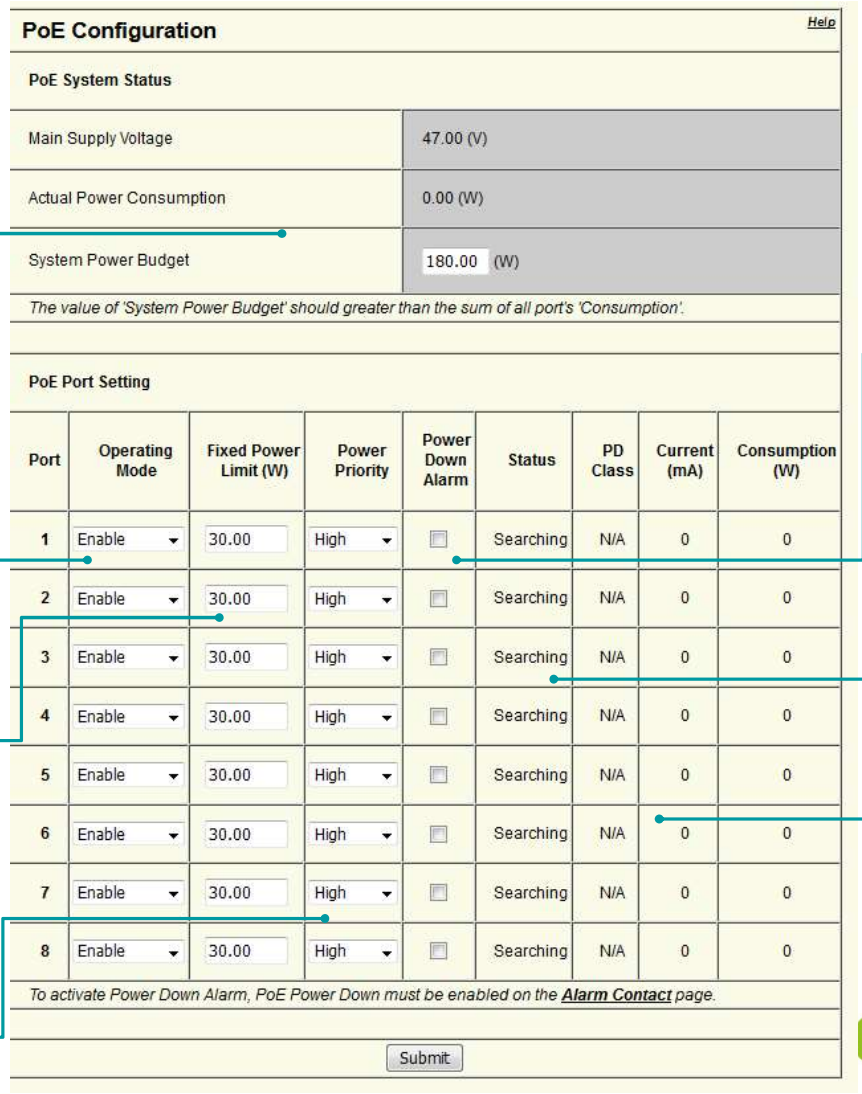
PoE Configuration

View overall PoE system settings such as power supply, consumption, and configuration of power budget

Enable/Disable PoE per port

Configure the power budget by port

Set port power priority by port in event of power requirements exceeding “System Power Budget”



PoE Configuration

Help

PoE System Status

Main Supply Voltage	47.00 (V)
Actual Power Consumption	0.00 (W)
System Power Budget	180.00 (W)

The value of 'System Power Budget' should greater than the sum of all port's 'Consumption'.

PoE Port Setting

Port	Operating Mode	Fixed Power Limit (W)	Power Priority	Power Down Alarm	Status	PD Class	Current (mA)	Consumption (W)
1	Enable	30.00	High	☐	Searching	N/A	0	0
2	Enable	30.00	High	☐	Searching	N/A	0	0
3	Enable	30.00	High	☐	Searching	N/A	0	0
4	Enable	30.00	High	☐	Searching	N/A	0	0
5	Enable	30.00	High	☐	Searching	N/A	0	0
6	Enable	30.00	High	☐	Searching	N/A	0	0
7	Enable	30.00	High	☐	Searching	N/A	0	0
8	Enable	30.00	High	☐	Searching	N/A	0	0

*To activate Power Down Alarm, PoE Power Down must be enabled on the **Alarm Contact** page.*

Submit

Check this box to trigger an alarm in PoE power is not being delivered to the PD

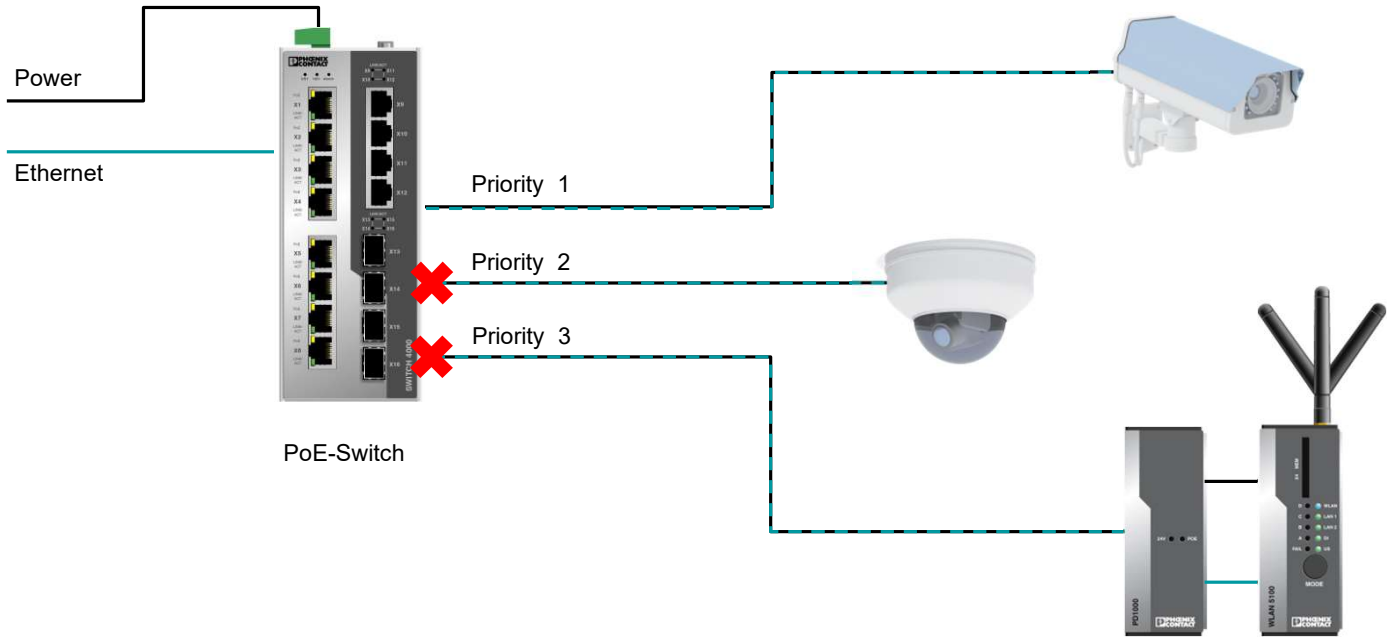
Displays the operating status of the PoE port

Displays monitoring data for the attached PDs in the form of PD class, current draw, and current consumption

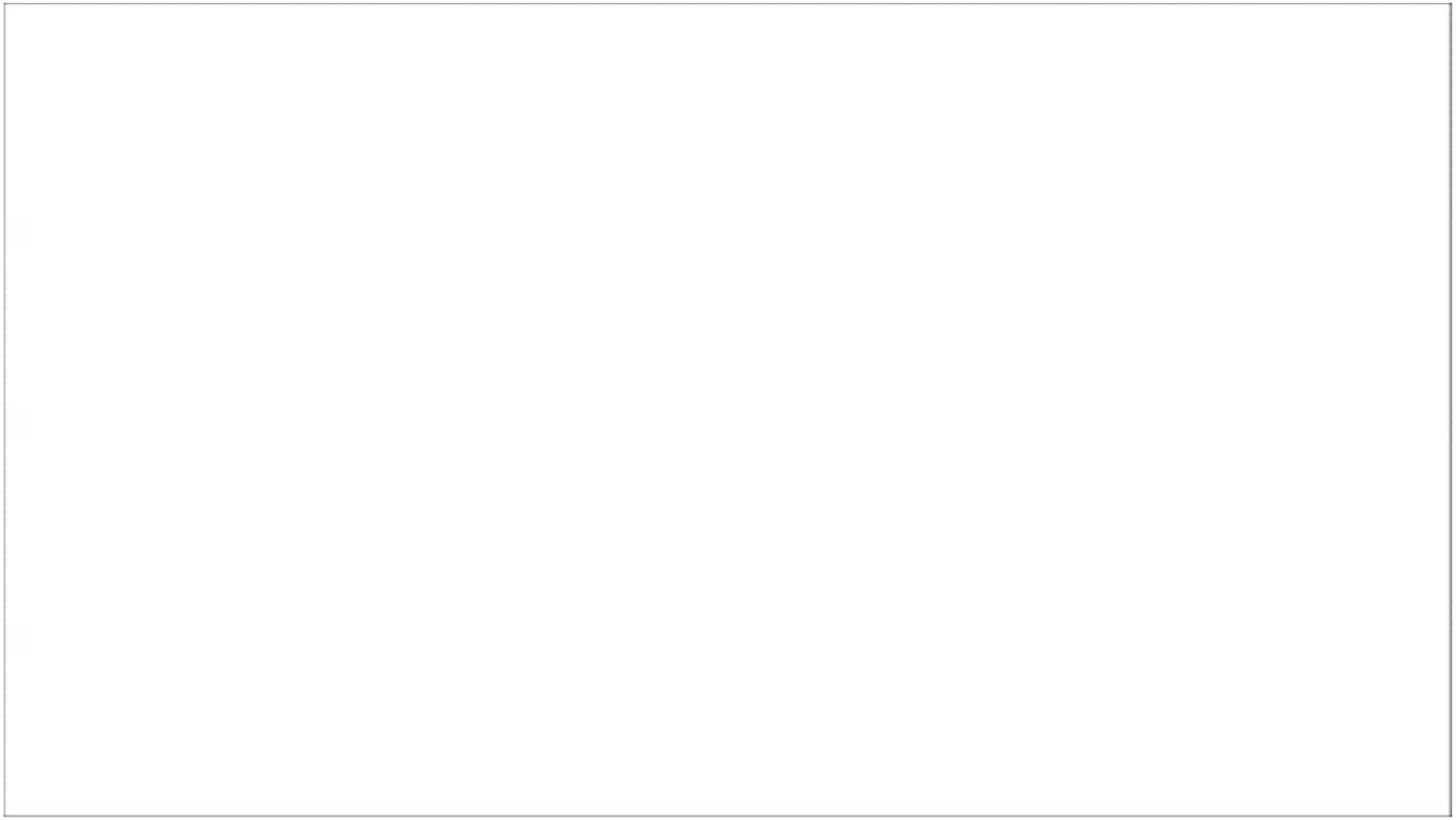
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Product Portfolio

4000 Series Managed – PoE Prioritization



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PoE Application

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Surveillance Infraestructure

INJ and PoE

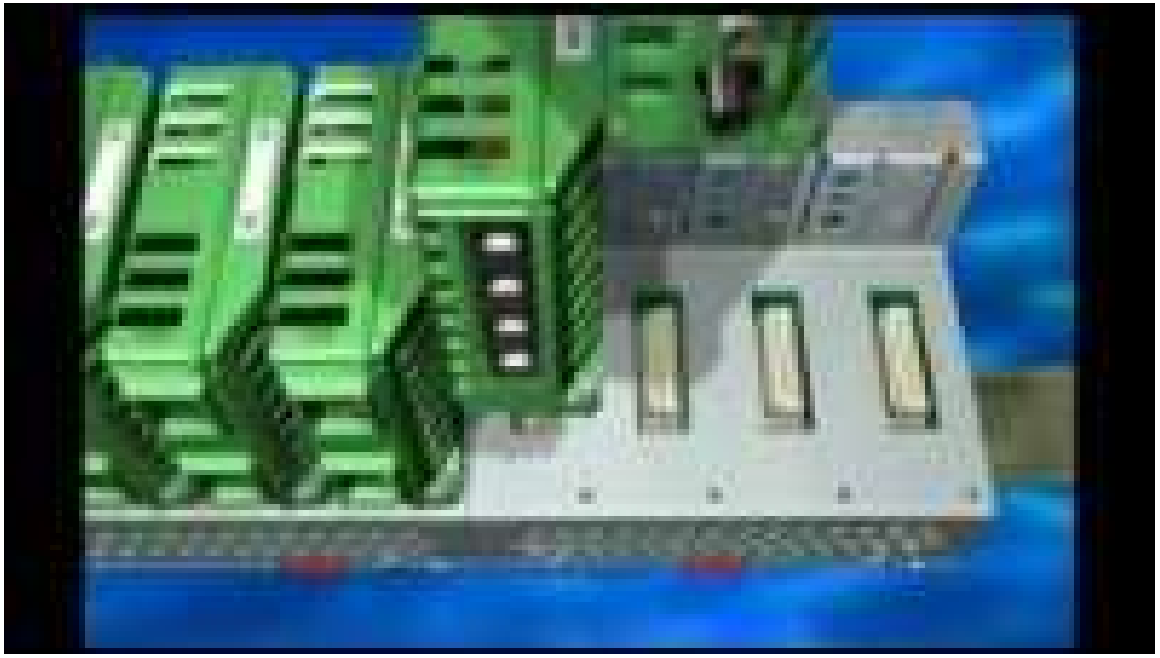


Video presentation of INJ Injector and PoE products

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PoE Module

FL SWITCH GHS





FL SWITCH GHS 4G/12 - 2700271



FL IF 2PSE-F - 2832904

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FL TIMESERVER NTP

FL TIMESERVER NTP

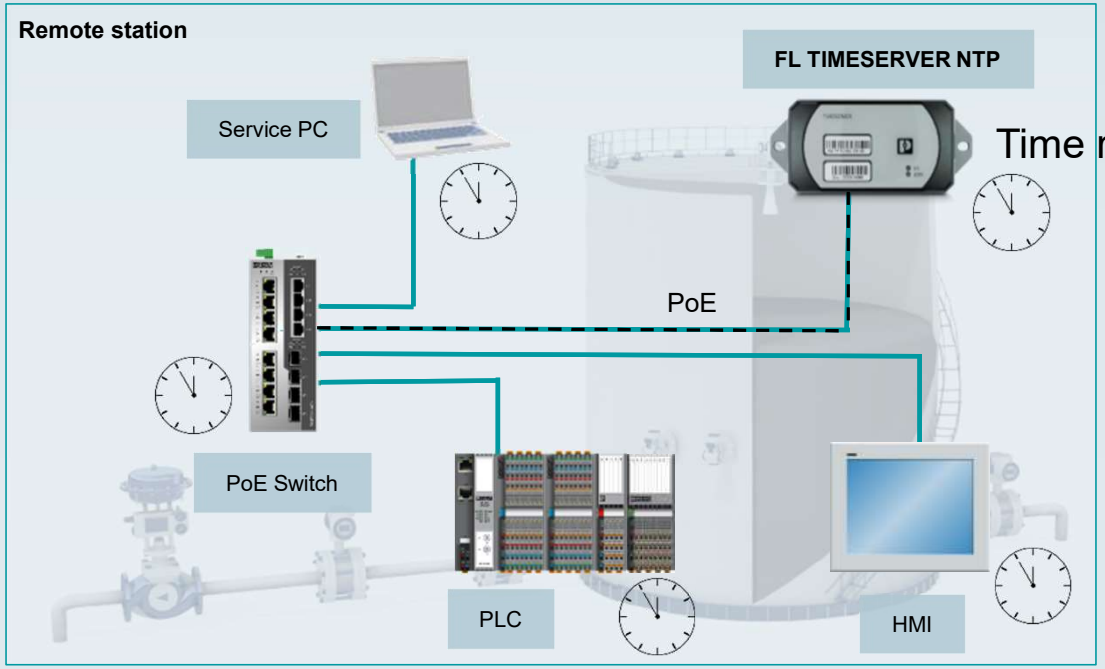
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FL TIMESERVER NTP

Time synchronisation



GPS, Galileo
and GLONASS



- Accurate time synchronization of Ethernet devices in a network via NTP protocol
- No Internet access necessary for more security

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FL TIMESERVER NTP

Features



- NTP time server for Ethernet networks
- Gigabit Ethernet with **Power over Ethernet** supply
- Alternative external 10 … 30 V DC supply



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IEEE 802.3 bt - the new standard

IEEE Standard → PoE bt

- PTZ cameras, PanTilt Zoom with infrared lighting and heating
- Monitors
- PCs / HMI
- Kiosks
- POS terminals
- thin clients
- LED lighting



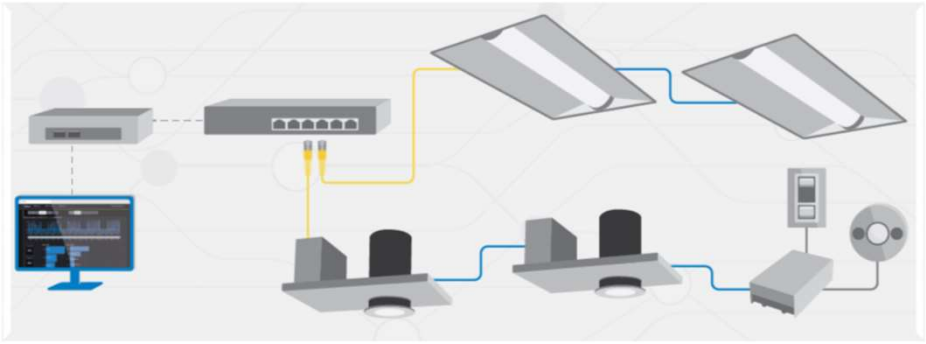










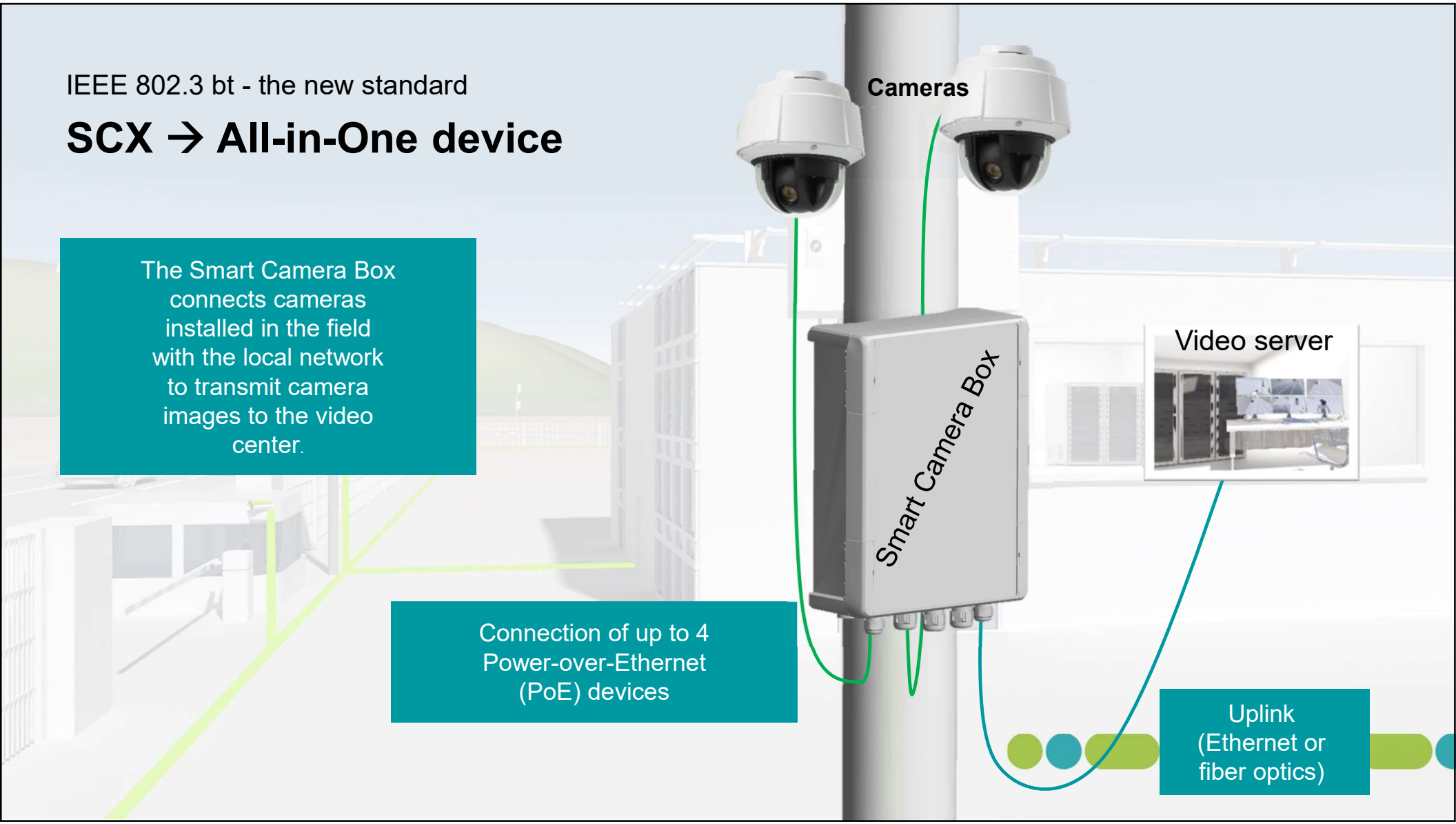


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IEEE 802.3 bt - the new standard

SCX → All-in-One device

The Smart Camera Box connects cameras installed in the field with the local network to transmit camera images to the video center.



Connection of up to 4 Power-over-Ethernet (PoE) devices

Surveillance Infraestructure

Phoenix Contact

Video Surveillance

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Webinar IMA 2020

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