PULS

Industrial Power-over-Ethernet Injectors and Power Supplies

4-channel or 8-channel | 30W per port | 1.000 Mbps

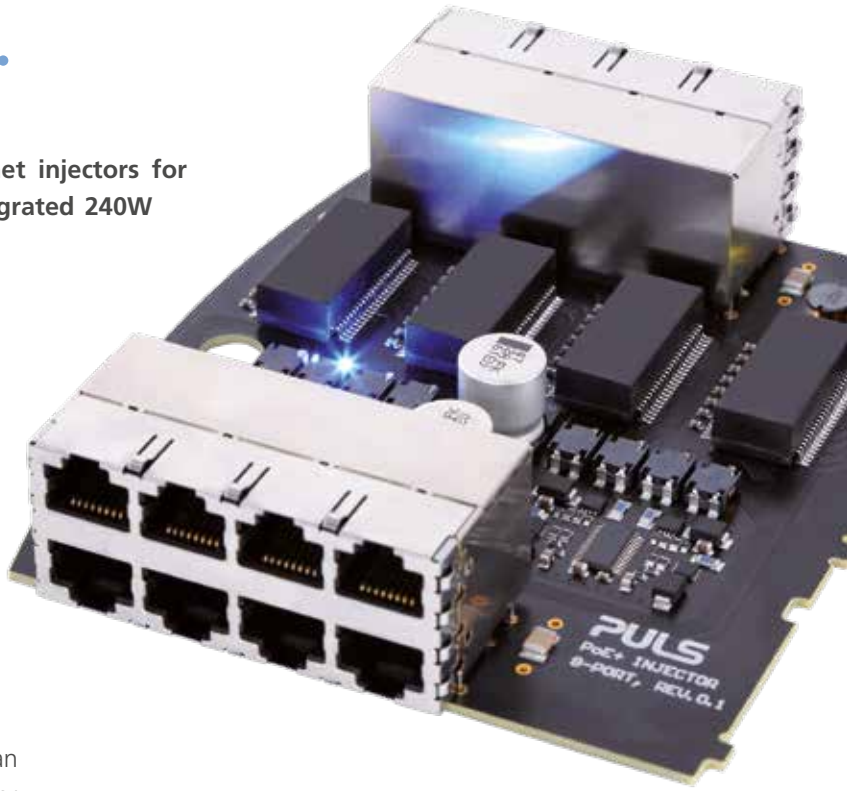
PoE Injector

PoE Power Supply

Flexible. Reliable. Fast.

Flexible. Reliable. Fast.

Efficient 4-channel and 8-channel Power-over-Ethernet injectors for a wide range of applications. Available with an integrated 240W power supply or as stand-alone device.



The 4- and 8-channel solutions are available with an integrated PULS high-end power supply or as standalone PoE injectors. Both devices feature a stable power of up to 30W per channel. This enables you to supply up to 8 PoE/PoE+ devices with only one injector.

The all-in-one device with an integrated AC/DC converter adds some extra benefits: It can be connected directly to the AC mains, permitting a simplified system structure. Previously, at least two devices were needed to achieve this result.

The underlying, trusted power supply CP10.481 provides an outstanding efficiency of 95.5%, which leads to even lower power losses. This results in significantly lower temperatures in your application, so you will benefit from cost savings for your cooling system.

In addition, lower temperatures lead to a higher reliability (MTBF 699,000h) and longer service life (120,000h) of the power supply.

Highlights

- **PoE+ 30W per port**
- **1 Gbit/s Ethernet**
- **DIN rail mounting**
- **Version with integrated high-end power supply**

Benefits at a glance

Power up to 8 devices

PULS PoE injectors are equipped with up to 8 ports. Each port delivers a power of 30W (25.5W at load) and is compliant to IEEE Standard 802.3at (also backwards compatible to IEEE 802.3af/15W per port). This enables PoE communication with a high number of devices using only one PoE injector.

Safety first

PULS always ensures a maximum level of security for its products, for hardware as well as software. For example, if one Ethernet channel of the PoE injector should fail, all other channels remain unaffected and fully functional. The devices are protected against digital attempts at manipulation – the integration of an ASIC in the switch design prevents intrusion.

Technical Data

PoE Power Supply (AC input)

Output	
PoE standard	PoE+ (IEEE 802.3at) PoE (IEEE 802.3af)
Output power	30W (25.5W on the load) per port
Output voltage	48V – 56V per port (adjustable)
Input (integrated power supply: CP10.481)	
AC input voltage nominal	100V – 240V
AC input voltage range	90V – 264V
Power factor PFC	0.98
Input inrush current	6A / 9A (120 / 230V)
DC input voltage, nominal	110V – 150V
DC input voltage range	88V – 187V
Efficiency (CP10.481)	95.5%
MTBF SN 29500, IEC 61709 (CP10.481)	699kh
Lifetime expectancy (CP10.481)	> 109kh
General data	
Data transfer rate	Gigabit Ethernet
Connection terminal type	Plug connector, RJ45 Ethernet
Dimensions WxHxD	77 x 131 x 117mm
Weight	900g
Operational temperature	-25°C to +70°C
Order Number	
POE.8AT-AC1	8 ports
POE.4AT-AC1	4 ports (coming soon)

PoE Injector (DC input)

Output	
PoE standard	PoE+ (IEEE 802.3at) PoE (IEEE 802.3af)
Output power	30W (25.5W on the load) per port
Output voltage	48V – 56V per port (adjustable)
Input	
DC input voltage range	48V – 56V
Input inrush current	5.5A
General data	
Data transfer rate	Gigabit Ethernet
Connection terminal type	Plug connector, RJ45 Ethernet
Dimensions WxHxD	39 x 128 x 117mm
Weight	360g
Operational temperature	-45°C to +85°C
Order Numbers	
POE.8AT-DC1	8 ports
POE.4AT-DC1	4 ports (coming soon)

Standards and approvals

CE

Save time and space

Standard DIN rail mounting allows an easy and quick installation of the PoE injector into customer applications. No complicated setup and integration into the Ethernet LAN is required. The small size of the all-in-one solution – with a width of only 77mm – saves space. You can also reduce the total number of devices in your system.

Perfect for industrial applications

Industrial applications are more challenging. The devices need to be able to handle varying grid quality, high temperatures and vibrations. With its new PoE injectors, PULS now offers robust, durable and efficient midspan solutions for anyone looking to power a larger number of PoE devices in an industrial environment.

Made for your application

Industrial automation

Building automation

Transportation infrastructure

Point-of-Sale (PoS)

Office environment

Medical and healthcare

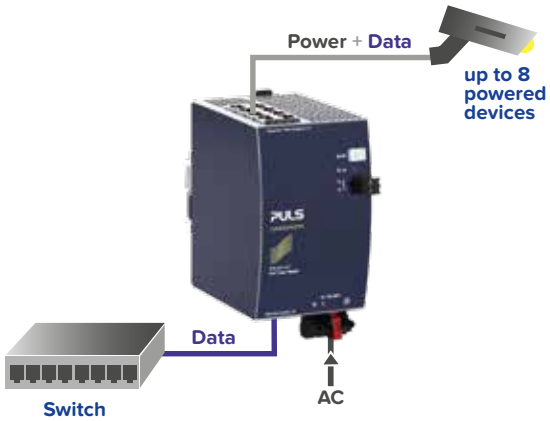
Options

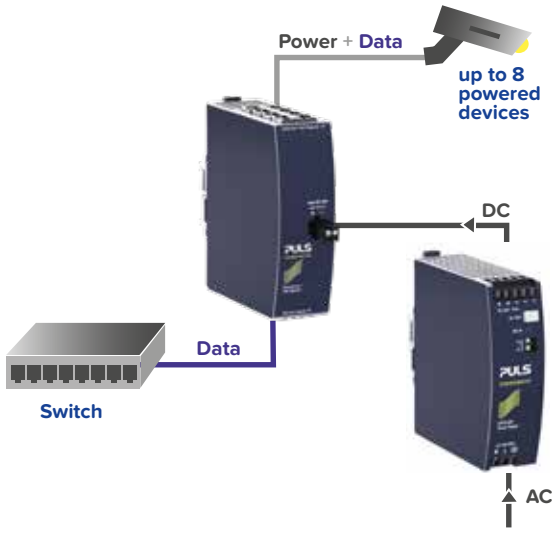
All-in-one solution

The version with a built-in PULS CP10.481 offers customers a high-quality power supply that impresses with its reliability and performance. This all-in-one solution reduces the system complexity and costs due to shorter installation times. In addition, only one part number needs to be managed.

PoE injector and external power supply

The stand-alone PoE injector is the perfect addition to existing PoE infrastructures or retrofit projects. The slim device is optimized for a flexible usage and works seamlessly with exisiting power supplies.





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FLY04-EN-02

Combine it with other PULS devices

DIN rail power supplies
use it to power the injector (e.g. CP10.481)

DC-UPS and buffer modules
to override short input voltage failures (e.g. UF20.481)

Redundancy modules
for high uptimes (e. g. YR40.482)

More Information