



# HIRSCHMANN

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## Product Bulletin

### PB 1076AG

#### Hirschmann™ PoE Injector

The Power over Ethernet (PoE) injector provides power to networked terminal devices without having to replace existing Ethernet switches or purchasing a stand-alone power supply – a solution that is both practical and cost-effective.



**Support for the PoE+ standard, together with gigabit speeds, provides optimal security for future expansion. The extremely robust design and extended operating temperature range of the PoE injector makes it an ideal solution for demanding industrial environments.**

- Easy and economical retrofitting of Ethernet networks with PoE functionality
- Maximum performance with PoE+ support and gigabit speed
- Wide range of applications due to the robust design and extended temperature range

The SPIDER Giga 2TX EEC PoE injector makes it possible to upgrade Ethernet networks to PoE functionality without replacing existing Ethernet switches. This enables you to power a wide range of terminal devices via the data line, not only giving you a great deal of flexibility but also reducing your costs. There is no need to install separate power supplies, extra sockets or power lines. All you need to do is connect the data port of the PoE injector to a switch and then connect the relevant terminal device to the PoE port. Since this can supply up to 30 W, even devices with quite high power consumption can be powered via the PoE injector.

#### Applications

The PoE injector is ideally suited for applications such as IP cameras, IP phones or WLAN access points – all of which require a power supply. This is because, under even the most rugged conditions, it permits flexible and cost-effective solutions using the network's existing data lines. Thus, many industries can benefit from using the PoE injector – from mechanical and plant engineering – such as robotics or materials handling applications – through renewable energy, to transportation and security technology.

#### Customer benefits

If you want to supply power to devices, you normally need either a power cable or switches that support PoE. But with the PoE injector, there is now a more cost-effective alternative. Its capacity of up to 30 W and gigabit speed also provide you with plenty of headroom for future expansion. Lastly, the PoE injector stands up to harsh environmental conditions, due to its strong metal housing design, resistance to impacts, vibration and electromagnetic influences, as well as its extended operating temperature range.

**A new product to serve your needs.  
Be certain.**



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## Hirschmann™ PoE Injector



Due to its PoE+ support and gigabit speed, the PoE injector is future-proof and offers a high degree of flexibility.

The SPIDER 2TX PoE Giga EEC injector is equipped with two RJ45 ports that both support Gigabit Ethernet (10/100/1000 BASE T) one port additionally supports PoE+ (up to 30 W compliant with IEEE 802.3at). The extremely robust metal housing, measuring 30 x 140 x 95 mm, can be mounted either on a DIN rail or on the wall.

The PoE injector meets the requirements of protection class IP30. Additional features include plug-and-play activation, an extended operating temperature range from -40°C to +70°C, and a redundant power supply (24/48 VDC), with LEDs to display the status of its own power supply and the PoE port.

### Benefits at a glance

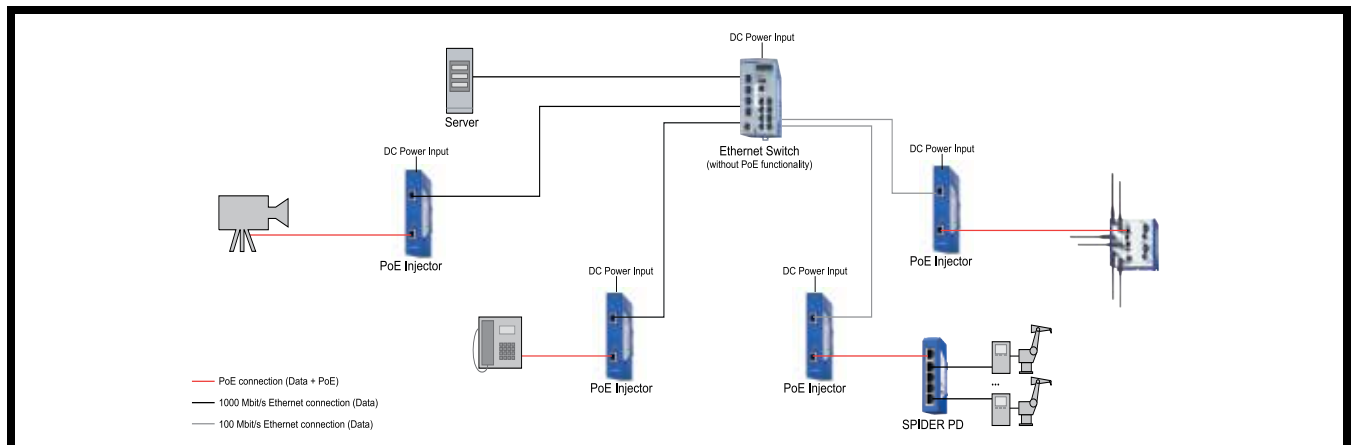
- Cost-effective powering of devices via the data line, without replacing any installed standard switches
- Maximum performance thanks to gigabit speed and PoE+
- Can be used in demanding industrial environments thanks to its robust metal housing and extended operating temperature range (-40°C to +70°C)
- IP30 protection class
- Resistant to impacts, vibration and electromagnetic fields (EMC)
- Fast activation by plug-and-play
- Redundant power supply (24/48 V DC)
- LED displays of the power supply and PoE port status
- Compact dimensions (30 x 140 x 95 mm)
- DIN rail or wall mount
- Perfectly matched to all switches and power packs from Hirschmann and cables from Belden®





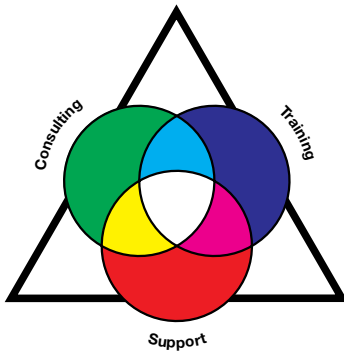
## Technical Information

Product Description	
Type	SPIDER Giga 2TX PoE EEC
Description	Industrial Ethernet Power over Ethernet Injector
Port type and quantity	2 x 10/100/1000BASE-T(X), 1 x PoE+ according IEEE802.3at, TP-cable, RJ45 sockets
Order No.	942 059-001
Additional Interfaces	
Power supply/signaling contact	1 plug-in terminal block, 6-pin, no signaling contact
Network Size - Length of Cable	
Twisted pair (TP)	0 - 100 m
Multimode fiber (MM) 50/125 $\mu\text{m}$	n/a
Multimode fiber (MM) 62,5/125 $\mu\text{m}$	n/a
Singlemode fiber (SM) 9/125 $\mu\text{m}$	n/a
Singlemode fiber (LH) 9/125 $\mu\text{m}$ (long haul transceiver)	n/a
Power Requirements	
Operating Voltage	24/48 V DC redundant
Current Consumption at 24V DC	max. 1.39 A (with PoE)
Power Consumption	max. 33 Watt
Service	
Diagnostics	LEDs (power, PoE)
Ambient Conditions	
Operating Temperature	-40°C to +70°C
Storage/Transport Temperature	-45°C to +85°C
Relative Humidity (non-condensing)	5% to 95%
Mechanical Construction	
Mounting	DIN Rail, wall mounting
Protection Class	IP30
Dimensions (WxHxD)	30 mm x 140 mm x 95 mm
Weight	420g
Approvals	
Safety of Industrial Control Equipment	cUL 508
Reliability	
MTBF	1.419.817 h
Warranty	5 years (standard)





## The Belden® Competence Center



As the complexity of communication and connectivity solutions has increased, so have the requirements for design, implementation and maintenance of these solutions. For users, acquiring and verifying the latest expert knowledge play a decisive role in this. As a reliable partner for end-to-end solutions, Belden offers expert consulting, design, technical support, as well as technology and product training courses from a single source: Belden Competence Center. In addition, we offer you the right qualification for every area of expertise through the world's first certification program for industrial networks. Up-to-date manufacturer's expertise, an international service network and access to external specialists guarantee you the best possible support for products from Belden®, GarrettCom®, Hirschmann™ and Lumberg Automation™.

Irrespective of the technology you use, you can rely on our full support – from the implementation to the optimization of every aspect of daily operations.

### Always Stay Ahead with Belden

In a highly competitive environment, it is crucial to have reliable partners who are able to add value to your business. When it comes to signal transmissions, Belden is the number one solutions provider. We understand your business and want to know your specific challenges and targets to see how effective signal transmission solutions can push you ahead of the competition. By combining the strengths of our four leading brands, Belden®, GarrettCom®, Hirschmann™ and Lumberg Automation™, we are able to offer the solution you need. Today it may be a single cable, a switch or a connector, thus solving a specific issue; tomorrow it can be a complex range of integrated applications, systems and solutions.

### About Belden

Belden Inc., a global leader in high quality, end-to-end signal transmission solutions, delivers a comprehensive product portfolio designed to meet the mission-critical network infrastructure needs of industrial, enterprise and broadcast markets. With innovative solutions targeted at reliable and secure transmission of rapidly growing amounts of data, audio and video needed for today's applications, Belden is at the center of the global transformation to a connected world. Founded in 1902, the company is headquartered in St. Louis, USA, and has manufacturing capabilities in North and South America, Europe and Asia.

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