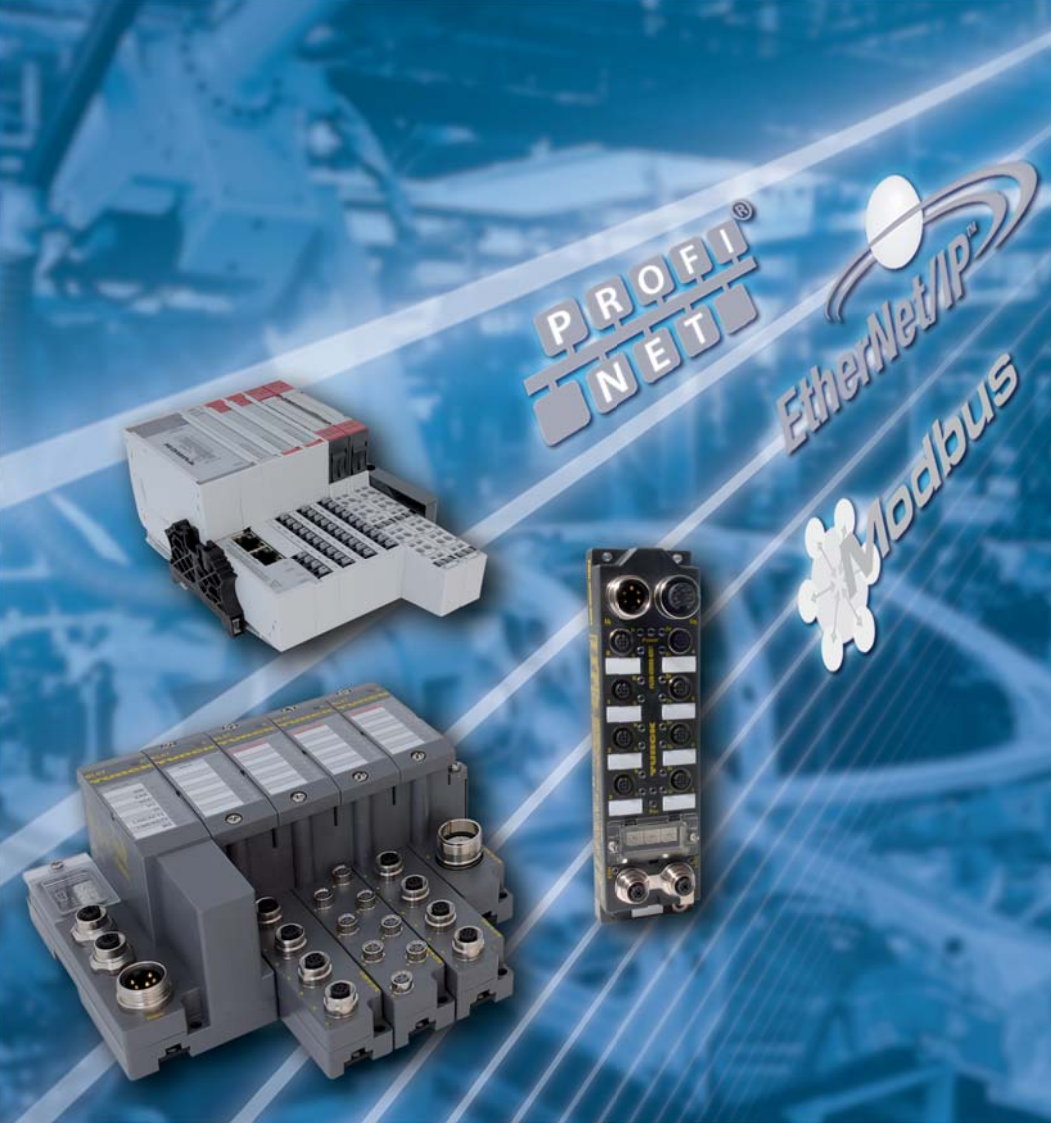


### MULTIPROTOCOL I/O SYSTEMS FOR ETHERNET



#### One device – 3 protocols

The success of Industrial Ethernet in automation engineering has entailed a host of new protocols. To counteract the resulting variety of equipment has become a priority

TURCK presents an integrative product portfolio of multiprotocol-capable block I/O modules and gateways for modular I/O systems. Multiprotocol combines the three established Ethernet protocols Modbus TCP, PROFINET IO and EtherNet/IP™ in one device.

The devices of the different I/O series, marketed by TURCK under the concept of 'multiprotocol', share the same functionality.

- **Multiprotocol:**

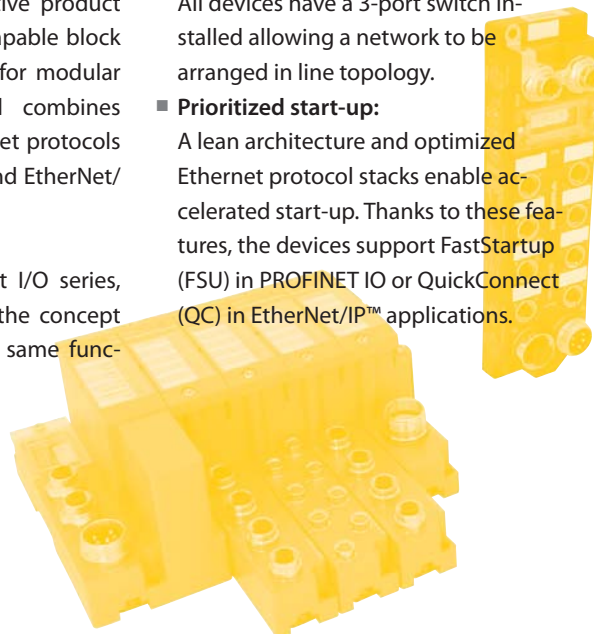
The gateways as well as the compact I/O modules combine the three Ethernet protocols PROFINET IO, EtherNet/IP™ and Modbus TCP in one device.

- **Line topology:**

All devices have a 3-port switch installed allowing a network to be arranged in line topology.

- **Prioritized start-up:**

A lean architecture and optimized Ethernet protocol stacks enable accelerated start-up. Thanks to these features, the devices support FastStartup (FSU) in PROFINET IO or QuickConnect (QC) in EtherNet/IP™ applications.



#### Reduced equipment variety

#### Enhanced redundancy

#### Simplified storage

#### Generic system concepts



***Sense it! Connect it! Bus it! Solve it!***

## Multiprotocol I/O systems for Ethernet

### Industrial Automation

#### New multiprotocol platform from TURCK

A TURCK multiprotocol device can be operated at the three Ethernet systems PROFINET IO, EtherNet/IP™ and Modbus TCP without having to reprogram it. After connecting the power, the integrated 'snooping' functionality enables the device to recognize the type of Ethernet protocol that requests for connection buildup during the start-up phase. If one of the three protocols is identified, the device changes automatically to this protocol and ignores the telegrams of the other ones.



The implementation of the protocols leaves nothing to be desired: When operated as a PROFINET IO device it supports prioritized start-up, the media redundancy protocol (MRP), topology recognition as well as address allocation via Link Layer discovery Protocol (LLDP). Both, Quick-Connect (QC ) and Device Level Ring (DLR) are implemented in EtherNet/IP™.



Thanks to these features, the equipment variety can be reduced significantly. Multiprotocol I/O systems can thus be installed in machines and systems that are largely built with identical components and only need a different control resp. master, according to the customer's specifications. Not only purchase and stock keeping of spare-parts profit from the obvious advantages, also electrical construction plans can just be duplicated..



[www.turck.com](http://www.turck.com)

Type	Description
FGEN-IM16-5001	IP67 block I/O module with 16 digital inputs
FGEN-IOM88-5001	IP67 block I/O module with 8 digital inputs and 8 digital outputs
FGEN-OM16-5001	IP67 block I/O module with 16 digital outputs
FGEN-XSG16-5001	IP67 block I/O module with 16 configurable digital inputs and outputs
BL67-GW-EN (from version 3)	Multiprotocol Ethernet gateway for the modular IP67 rated I/O system BL67
BL20-E-GW-EN (from version 3)	Multiprotocol Ethernet gateway for the modular IP20 rated I/O system BL20
BL compact (from version 3)	IP67 block I/O modules for digital and analog I/O signals and technology modules (RS232, RS485, counters and SSI)



To get all product information, just scan the QR code with a smart-phone or webcam.

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