

Fieldbus Modules

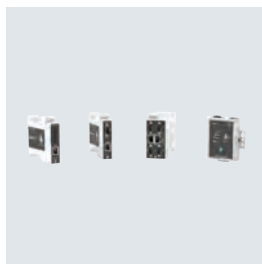
Contents



Ethernet IO Modules
Page 421



**Unmanaged
Ethernet switches**
Page 422



**Serial gateways
(DeviceMaster)**
Page 423

Ethernet IO Modules



Standard Technical Data

Installation conditions	Field mounting
Voltage type	DC
Operating voltage (min)	18 V
Operating voltage (max)	30 V
Degree of protection	IP65/IP67/IP69K
Ambient temperature (min)	-20 °C
Ambient temperature (max)	70 °C
Housing length L	21 mm
Housing width W	59.6 mm
Housing height H	200 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Type	Protocol	Transfer rate [MBit/s]	Input	Output type
ICE1-16DI-G60L-V1D	Digital fieldbus module	EtherCAT, EtherNet/IP, PROFINET	100	16 digital inputs	
ICE1-16DIO-G60L-C1-V1D	Digital fieldbus module	EtherCAT, EtherNet/IP, PROFINET	100	16 digital inputs	16 digital outputs
ICE1-16DIO-G60L-V1D	Digital fieldbus module	EtherCAT, EtherNet/IP, PROFINET	100	16 digital inputs	16 digital outputs
ICE1-8DI8DO-G60L-C1-V1D	Digital fieldbus module	EtherCAT, EtherNet/IP, PROFINET	100	8 digital inputs	8 digital outputs
ICE1-8DI8DO-G60L-V1D	Digital fieldbus module	EtherCAT, EtherNet/IP, PROFINET	100	8 digital inputs	8 digital outputs
ICA-10DI6DO-G60A-IO	I/O hubs with IO-Link	IO-Link		10 digital inputs	6 digital outputs
ICA-16DI-G60A-IO	I/O hubs with IO-Link	IO-Link		16 digital inputs	
ICA-16DIO-G60AL-IO	I/O hubs with IO-Link	IO-Link		16 digital inputs	16 digital outputs

Highlights

- Enables comprehensive diagnostics and parameterization down to the sensor/actuator level
- Simplified device replacement and commissioning: Automatic transfer of the parameter set when connecting several sensors
- Unshielded standard cables for simple and economical wiring

Brief Description

Equipped with an integrated eight-way IO-Link master, the Ethernet IO module allows direct connection of up to eight IO-Link devices. There are four channels available for sensors (type A) and actuators (type B). This allows parameters to be set, measuring and switching signals to be transferred, diagnostic functions to be implemented and more transparency to be achieved. This can set up, for example, a pre-fault indicator, preventive maintenance, a simple restart after sensor replacement, and an overview of the overall system. This transparency through to the sensor or actuator can significantly improve process performance.

Accessories

MH V1-BIT M12	Plug-in attachment for M12
MH V1-SCREWDRIVER	Torque screwdriver (0.6 Nm)
V1-G-BK1M-PUR-A-TV1-G	Y-splitter cordset, M12 to 2xM12, 4-pin, PUR cable
V15L-G-0,6M-PUR-U-V15L-G	Cordset, M12 to M12, L-coded, 5-pin, PUR cable
V15L-G-1M-PUR-U-V15L-G	Cordset, M12 to M12, L-coded, 5-pin, PUR cable
V15L-G-2M-PUR-U-V15L-G	Cordset, M12 to M12, L-coded, 5-pin, PUR cable
V15L-G-5M-PUR-U	Single-ended female cordset, M12, L-coded, 5-pin, PUR cable
V15L-G-BK	Single-ended female cordset, M12, L-coded, field-attachable

Unmanaged Ethernet Switch



Standard Technical Data	
Installation conditions	Switch cabinet mounting
Transfer rate	100000 Hz
Type	Unmanaged Ethernet switch
Voltage type	DC
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Number of ports	UB (min)	UB (max)	Length L	Width W	Height H
ICRL-U-5RJ45-DIN	5 x RJ45	18	32	99	30.5	112
ICRL-U-5RJ45-DIN-NT	5 x RJ45	18	32	99	30.5	112
ICRL-U-8RJ45-DIN	8 x RJ45	10	60	120	55	108
ICRL-U-8RJ45-DIN-NT	8 x RJ45	10	60	120	55	108

Highlights

- Robust housing for use in adverse environmental conditions
- Alarm relay output for port event notifications
- DC power input
- Extended temperature range
- C1D2 certification

Brief Description

Unmanaged Ethernet switches in the RocketLinX series are suitable for applications that require extended temperature ranges, rugged enclosures, high-performance communication and reliable data transfer. With five to eight port devices available in a wide range of robust enclosure variants, the RocketLinX series offers maximum reliability and performance to meet a wide range of customer requirements. RocketLinX unmanaged switches offer a cost-effective solution for easy connection of Ethernet-capable devices to networks that do not require complex configuration. By contrast, managed switches are suitable for setting up more complex networks and impress with additional features and custom configuration options. Users can select from a comprehensive portfolio of Power-over-Ethernet and Gigabit switches.

Accessories	
V45-G-10M-V45-G	Network cable RJ-45, Category 5
V45-G-C5-GN10M-PUR-E1S	Bus cable, Ethernet single-ended male cordset RJ45, PROFINET-coded, 4-pin, green PUR cable, Cat5e, shielded
V45-G-C5-GN10M-PUR-E1S-V45-G	Bus cable Ethernet RJ45 to RJ45 PROFINET-coded, 4-pin, green PUR cable, Cat5e, shielded
V45-G-C5-GN1M-PUR-E1S	Bus cable, Ethernet single-ended male cordset RJ45, PROFINET-coded, 4-pin, green PUR cable, Cat5e, shielded
V45-G-C5-GN1M-PUR-E1S-V45-G	Bus cable Ethernet RJ45 to RJ45 PROFINET-coded, 4-pin, green PUR cable, Cat5e, shielded
V45-G-C5-GN20M-PUR-E1S-V45-G	Bus cable Ethernet RJ45 to RJ45 PROFINET-coded, 4-pin, green PUR cable, Cat5e, shielded
V45-G-C5-GN3M-PUR-E1S	Bus cable, Ethernet single-ended male cordset RJ45, PROFINET-coded, 4-pin, green PUR cable, Cat5e, shielded
V45-G-C5-GN3M-PUR-E1S-V45-G	Bus cable Ethernet RJ45 to RJ45 PROFINET-coded, 4-pin, green PUR cable, Cat5e, shielded

Serial Gateways (DeviceMaster)



Standard Technical Data

Installation conditions	Switch cabinet mounting
Transfer rate	100000 Hz
Voltage type	DC
Operating voltage (min)	5 V
Operating voltage (max)	30 V
Ambient temperature (min)	-40 °C
Ambient temperature (max)	75 °C
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Type	Protocol	Length L	Width W	Height H
ICDM-RX/EN-2DB9/RJ45-DIN	EtherNet / IP gateway	EtherNet/IP	116.8	22.9	99.1
ICDM-RX/EN-2ST/RJ45-DIN	EtherNet / IP gateway	EtherNet/IP	111	22.6	99
ICDM-RX/EN-4DB9/2RJ45-DIN	EtherNet / IP gateway	EtherNet/IP	116.8	45.7	99.1
ICDM-RX/EN-DB9/RJ45-DIN	EtherNet / IP gateway	EtherNet/IP	114.8	22.9	99.1
ICDM-RX/EN-DB9/RJ45-PM	EtherNet / IP gateway	EtherNet/IP	91.4	20.3	71.1
ICDM-RX/EN-ST/RJ45-DIN	EtherNet / IP gateway	EtherNet/IP	119.3	22.9	99.1
ICDM-RX/MOD-2DB9/RJ45-DIN	Modbus gateway	MODBUS	116.8	22.9	99.1
ICDM-RX/MOD-2ST/RJ45-DIN	Modbus gateway	MODBUS	111	22.6	99
ICDM-RX/MOD-4DB9/2RJ45-DIN	Modbus gateway	MODBUS	116.8	45.7	99.1
ICDM-RX/MOD-DB9/RJ45-DIN	Modbus gateway	MODBUS	114.8	22.9	99.1
ICDM-RX/MOD-DB9/RJ45-PM	Modbus gateway	MODBUS	91.4	20.3	71.1
ICDM-RX/MOD-ST/RJ45-DIN	Modbus gateway	MODBUS	119.3	22.9	99.1
ICDM-RX/PN-2DB9/RJ45-DIN	PROFINET IO gateway	PROFINET	116.8	22.9	99.1
ICDM-RX/PN-2ST/RJ45-DIN	PROFINET IO gateway	PROFINET	111	22.6	99
ICDM-RX/PN-4DB9/2RJ45-DIN	PROFINET IO gateway	PROFINET	116.8	45.7	99.1
ICDM-RX/PN-DB9/RJ45-DIN	PROFINET IO gateway	PROFINET	114.8	22.9	99.1
ICDM-RX/PN-DB9/RJ45-PM	PROFINET IO gateway	PROFINET	91.4	20.3	71.1
ICDM-RX/PN-ST/RJ45-DIN	PROFINET IO gateway	PROFINET	119.3	22.9	99.1
ICDM-RX/TCP-2DB9/RJ45-DIN	Serial device server	TCP/IP	116.8	22.9	99.1
ICDM-RX/TCP-2ST/RJ45-DIN	Serial device server	TCP/IP	111	22.6	99
ICDM-RX/TCP-4DB9/2RJ45-DIN	Serial device server	TCP/IP	116.8	45.7	99.1
ICDM-RX/TCP-DB9/RJ45-DIN	Serial device server	TCP/IP	114.8	22.9	99.1
ICDM-RX/TCP-DB9/RJ45-PM	Serial device server	TCP/IP	91.4	20.3	71.1
ICDM-RX/TCP-ST/RJ45-DIN	Serial device server	TCP/IP	119.3	22.9	99.1

Highlights

- Web-based configuration
- RS-232/422/485 interfaces selectable via software
- NEMA TS2 certification

Brief Description

From barcode scanners to measuring devices and RFID readers, DeviceMaster® enables easy connection of devices with RS-232/422/485 serial interfaces to higher-level Ethernet or industrial Ethernet networks such as Ethernet/IP, Modbus TCP and PROFINET. The serial gateways have powerful security mechanisms including SSL key and SSH certificate management as well as SSL data encryption. They are available with different connection options and for DIN rail, switch panel and rack mounting.