



Features

- ✓ Very compact design for DIN rail mounting
- ✓ Redundant power supply
- ✓ Galvanic isolation of the networks
- ✓ Up to 1024 Byte input/output data
- ✓ 300 configurable slots for PROFINET IO data
- ✓ 3 input and 3 output assemblies
- ✓ Configuration just with GSDML file, no further software necessary
- ✓ EDS file downloadable
- ✓ Diagnostics website
- ✓ MQTT Publisher on both network sides (PROFINET & Ethernet/IP)

PROFINET Coupler, EtherNet/IP

Machines and systems can be linked with fieldbus couplers. This makes data exchange between different control worlds possible. A complex CPU-to-CPU communication can be omitted. Depending on the fieldbus, the integration takes place via device description files such as GSD, GSDML or EDS.

With the PN/EtherNet/IP Coupler, a simple and uncomplicated connection of a PROFINET machine to an EtherNet/IP machine is possible. The PN/EtherNet/IP Coupler allows data transmission between a PROFINET controller and an EtherNet/IP PLC.

Received input data on one side of the network are made available as output data on the other side of the network to the PLC. The I/O data exchange takes place live and as fast as possible without further handling blocks.

The maximum size of the transferable I/O data is 1024 bytes. Up to 3 input and 3 output assemblies can be configured on the EtherNet/IP network side. Up to 300 slots are available for I/O modules.

The integration into the PLC engineering tool is made possible by a GSDML file, an extra configuration software is not necessary. The configuration of the I/O data to be exchanged is performed in the Siemens engineering tool. An EDS file matching the configuration can then be downloaded from the website by the PN/EtherNet/IP Coupler and used to configure the EtherNet/IP PLC.

General information

Order number	700-160-3EN02
Article name	PN/EtherNet/IP Coupler

Scope of delivery	PN/EtherNet/IP Coupler with power supply plug
Dimensions (DxWxH)	32.5 x 58.5 x 76 mm mm
Weight	Approx. 135 g

PROFINET interface (X1)

Number	1
Connection	2 x RJ45, integrated switch
Protocol	PROFINET IO Device as defined in IEC 61158-6-10
Transmission rate	100 Mbps full duplex
I/O image size	max. 1024 bytes of input and output data
Features	media redundancy(MRP-Client),
	automatic addressing,
	Topologieerkennung (LLDP, DCP),
	diagnosis alarms
	PROFINET conformance class B

EtherNet/IP interface (X2)

Number	1
Connection	2x RJ45, integrated switch
Protocol	EtherNet/IP
	implicit messaging (Transport Class 1)
	explicit messaging (Transport Class 3)
Transmission rate	10/100 Mbit/s, full-/half duplex
I/O image size	3x input assemblies + 3x output assemblies
	together maximum 1024 bytes data
	Number of the assemblies adjustable

Status indicator

Function indicator	9 LEDs
Ethernet status	8 LEDs

Power supply

Operating voltage	24 V DC (18 - 28 V DC)
Current draw	max. 140 mA
Power dissipation	max. 3.4 W

Ambient conditions

Ambient temperature	0 °C to 60 °C
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Transport and storage temperature	-20 °C to 80 °C
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Relative air humidity	95% non-condensing
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Protection rating	IP 20
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Mounting position	as desired
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Approvals	CE, UL
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UL

UL	UL 61010-1 / UL 61010-2-201
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Surrounding Air Temperature	DC 24 V (18 ... 28 VDC, SELV and limited energy circuit)
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Pollution degree	2
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Altitude	Up to 2000m
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Temperature cable rating	87 °C
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As of: 7 - 2026