

# IBS-PB CT 24 IO GT-T - Coupling module



2742751

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I/O coupling module (gateway) for an INTERBUS system and a PROFIBUS DP system, 24 V DC, protection type IP20

## Product description

CT coupling modules connect two fieldbus systems at the input/output level. With the above module type, it is possible to couple an INTERBUS system to a PROFIBUS system. In their function, the gateways correspond to two normal I/O modules, the inputs and outputs of which are connected crosswise.

In this way, bi-directional data transfer can take place between any two control systems. The volume of data can be up to ten words (160 bits) per cycle.

The data width can be configured between one byte and ten words by means of a rotary switch (byte configuration is only possible in Generation 4 controller boards). The selected data word (or byte) is shown on a 7-segment display.

The modules are installed directly in the remote bus. The bus is connected at the INTERBUS-PROFIBUS gateway IBS-PB 24 IO GT-T via 9-pos. D-SUB connectors.

The modules are equipped with electrically isolated bus lines as well as a redundant supply of the 24 V power. 16 status LEDs assigned to each bus line are used to display the signal states. A button located on the module permits the current output word or byte of the specific remote bus to be displayed. In this case, the output information for one bus is the input information of the other. If a bus system fails, an error message is generated in the other bus system (I/O error message or static diagnostics)

## Your advantages

- DIN rail mount
- Diagnostic and status indicators
- Redundant power supply
- Electrical isolation
- Transmission of process data

## Commercial data

Item number	2742751
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN16
Product key	DR1A12
Catalog page	Page 125 (AX-2005)
GTIN	4017918890360
Weight per piece (including packing)	404.2 g
Weight per piece (excluding packing)	340 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Product properties

Product type	Gateways/Proxies
Type	Block design

### System properties

#### Local diagnostics

Error messages via the bus	I/O error message (can be switched off)
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### Electrical properties

Test section	Supply voltage/logics 500 V AC 50 Hz 1 min.
	Supply voltage/functional ground 500 V AC 50 Hz 1 min.
	Logic/functional ground 500 V AC 50 Hz 1 min.
	INTERBUS system /PROFIBUS-DP system 500 V AC 50 Hz 1 min.
Protective circuit	Surge protection
	Reverse polarity protection; Serial diode
Power dissipation	3.6 W

#### Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V ... 30 V
Residual ripple	1.2 V <sub>PP</sub>
Typical current consumption	150 mA

### Connection data

Conductor cross section, rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 16

### Interfaces

#### INTERBUS remote bus (incoming/outgoing)

Connection method	D-SUB 9 plug
Transmission speed	500 kbps / 2 Mbps
Transmission physics	Copper
Transmission length	400 m (depending on the transmission speed)

#### PROFIBUS DP remote bus

Connection method	D-SUB 9 plug
Transmission speed	9.6 kbps ... 12 Mbps
Transmission physics	Copper
Transmission length	1200 m (depending on the transmission speed)

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## Dimensions

Width	204 mm
Height	77 mm
Depth	37 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

## Mounting

Mounting type	DIN rail mounting
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## Classifications

### UNSPSC

UNSPSC 21.0	39122114
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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## Accessories

### SUBCON 9/F-SH - D-SUB bus connector

2761499

<https://www.phoenixcontact.com/us/products/2761499>



D-SUB connector, 9-pos. socket, one 35° cable outlet, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

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### SUBCON 9/M-SH - D-SUB bus connector

2761509

<https://www.phoenixcontact.com/us/products/2761509>



D-SUB connector, 9-pos., pin, one 35° cable outlet, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

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## SUBCON-PLUS-PROFIB - D-SUB bus connector

2744348

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D-SUB plug, 9-pos., pin, axial version with two 35° cable entries, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; spring-cage connection terminal blocks

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