

Bus coupler - IL ETH BK-PAC



2702372

<https://www.phoenixcontact.com/gb/products/2702372>

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Inline, Bus coupler, Modbus/TCP(UDP), RJ45 jack, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connector and labeling field

Product Description

The bus coupler is intended for use within a Modbus/TCP (UDP) network. The bus coupler creates the link to the Inline I/O system and the industrial I/O signals connected to it. Up to 63 Inline devices can be connected to the bus coupler.

Your advantages

- 2 Ethernet ports (with integrated switch)
- Transmission speed of 10 Mbps and 100 Mbps
- Automatic detection of the transmission speed in the local bus (500 kbps or 2 Mbps)
- Support for three branch terminals as a remote bus branch (32 remote bus devices in total)
- Firmware can be updated
- Data exchange via OPC server supported
- Software interfaces for access via TCP/IP: Device Driver Interface (DDI) and High-Level Language Fieldbus Interface (HFI)
- Web-based management
- Security in the network: Port disconnection possible via web-based management

Commercial Data

| | |
|--------------------------------------|---------------|
| Item number | 2702372 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | DRI11B |
| Product Key | DRI11B |
| GTIN | 4055626399386 |
| Weight per Piece (including packing) | 167 g |
| Weight per Piece (excluding packing) | 131 g |
| Country of origin | DE |

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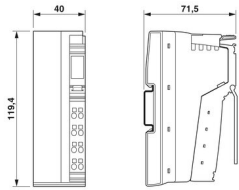


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Technical Data

Dimensions

| | |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width | 40 mm |
| Height | 119.4 mm |
| Depth | 71.5 mm |
| Note on dimensions | Housing dimensions |

Material specifications

| | |
|-------|-------|
| Color | green |
|-------|-------|

Interfaces

Modbus/TCP (UDP)

| | |
|-------------------------------|----------------------------------------------------------------------------------------|
| Number of interfaces | 2 (Connected to functional ground with a capacitor) |
| Connection method | RJ45 jack |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed | 10/100 Mbps (Half or full duplex mode (automatic detection, can be adjusted manually)) |
| Transmission physics | Ethernet in RJ45 twisted pair |

Inline local bus

| | |
|----------------------|-------------------------------------------------------------|
| Number of interfaces | 1 |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps / 2 Mbps (automatic detection, no combined system) |

System properties

System limits

| | |
|-------------------------------------------------------------|-----------------------|
| Number of supported devices | max. 63 (per station) |
| Number of local bus devices that can be connected | max. 63 |
| Number of devices with parameter channel | max. 16 |
| Number of supported branch terminals with remote bus branch | 3 |

Module

| | |
|---------------|------|
| ID code (hex) | none |
|---------------|------|

Product properties

| | |
|--------------|---------------|
| Type | modular |
| Product type | I/O component |

| | |
|-------------------|-----------------------------------------------|
| Mounting position | any |
| Scope of delivery | including Inline connector and labeling field |

Electrical properties

Potentials: Bus coupler supply U_{BK} ; Communications power U_L (7.5 V) and the analog supply U_{ANA} (24 V) are generated from the bus coupler supply.

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Supply voltage | 24 V DC (via Inline connector) |
| Supply voltage range | 19.2 V DC ... 30 V DC |
| Current draw | max. 0.95 A (with max. number of connected I/O terminal blocks) typ. 74 mA (No local bus devices connected) |

Potentials: Communications power (U_L)

| | |
|----------------|---------------|
| Supply voltage | 7.5 V DC |
| | max. 0.8 A DC |

Potentials: Supply of analog modules (U_{ANA})

| | |
|----------------------|--------------------------------------------------------------------|
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| | max. 0.5 A DC |

Potentials: Main circuit supply (U_M)

| | |
|----------------------|--------------------------------------------------------------------|
| Supply voltage | 24 V DC (via Inline connector) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| | max. 8 A DC (sum of $U_M + U_S$) |

Potentials: Segment circuit supply (U_S)

| | |
|----------------------|--------------------------------------------------------------------|
| Supply voltage | 24 V DC (via Inline connector) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| | max. 8 A DC (sum of $U_M + U_S$) |

Connection data

Connection technology

| | |
|-----------------|------------------|
| Connection name | Inline connector |
|-----------------|------------------|

Conductor connection

| | |
|----------------------------------|----------------------------------------------|
| Connection method | Spring-cage connection |
| Conductor cross section solid | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 28 ... 16 |
| Stripping length | 8 mm |

Inline connector

| | |
|-----------------------------------|----------------------------------------------|
| Connection method | Spring-cage connection |
| Conductor cross section, rigid | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 28 ... 16 |

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| | |
|------------------|------|
| Stripping length | 8 mm |
|------------------|------|

Environmental and real-life conditions

Ambient conditions

| | |
|------------------------------------------|---------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Degree of protection | IP20 |
| Air pressure (operation) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

| | |
|-------------------|-------------------|
| Mounting type | DIN rail mounting |
| Mounting position | any |

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27242608 |
| ECLASS-10.0.1 | 27242608 |
| ECLASS-11.0 | 27242608 |

ETIM

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| ETIM 8.0 | EC001604 |
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UNSPSC

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| UNSPSC 21.0 | 32151600 |
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