

IBS PCI SC/RI-LK - Termination board



2730187

<https://www.phoenixcontact.com/us/products/2730187>

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Termination board - system coupler with FO connection

Product description

INTERBUS system coupler for PCs with PCI bus

System couplers integrate master and slave functions in one controller board at reduced space and low cost.

They can be used wherever the PC takes over control functions in a lower-level INTERBUS system and at the same time requires a non-interacting link to a higher-level INTERBUS system.

A typical example is the internal control of a robot with a PC and the simultaneous link to the system network.

The software interfaces to the application program are compatible with the INTERBUS Generation 4 PC controller boards, such as the IBS PCI SC/I-T. As with all Generation 4 boards, configuration, parameterization and diagnostics are supported by the INTERBUS CMD software.

The system coupler allows for the connection of an external 24 V DC power supply to ensure uninterrupted operation of the higher-level INTERBUS system.

Your advantages

- External 24 V DC power supply
- Direct integration into OPC-based visualization systems via OPC server
- Installation of several cards in a PC with monitoring of multiple INTERBUS lines
- Parameterization and diagnostics with Diag+
- Compatible driver
- Access to INTERBUS system data and controller data via visualization stations
- INTERBUS parameter channel (PCP) supported
- Access to high-level language applications via HFI

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2730187 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR14 |
| Product key | DREABA |
| GTIN | 4017918193393 |
| Weight per piece (including packing) | 363.2 g |
| Weight per piece (excluding packing) | 256.96 g |
| Customs tariff number | 84733020 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|--------------|---------------------|
| Product type | PC controller board |
| Type | PC card |

System properties

| | |
|------------------|--------------------------|
| Control system | PCI bus |
| Operating system | Windows NT |
| | Windows 2000 |
| | Windows XP |
| | Windows 7 (64 bit) |
| | Venturcom RTX 5.x |
| | Further types on request |

Addressable areas

| | |
|-----|---------------|
| I/O | 16 bytes, PnP |
|-----|---------------|

INTERBUS-Master

| | |
|--|---------------------------------|
| Amount of process data | max. 8192 bit (INTERBUS-Master) |
| | 256 bit (INTERBUS-Slave) |
| Number of devices with parameter channel | max. 126 |

Local diagnostics

| | |
|------------------------|----------------------------|
| Designation | SC, HF, PF, BSA, FAIL |
| Monitored function | INTERBUS |
| Optical representation | LED displays on the module |

Functionality

| | |
|----------------|---------|
| Control system | PCI bus |
|----------------|---------|

System requirements

| | |
|-----------------------|-----------------------------------|
| Configuration tool | CMD from version 4.5x |
| | Config+ from version 1.00 onwards |
| Diagnostics tool | DIAG+ from version 1.14 |
| Application interface | HLI |
| | OPC |
| | DDI |
| Driver | Windows NT |
| | Windows 2000 |
| | Windows XP |
| | Windows 7 (64 bit) |
| | Venturcom RTX 5.x |
| | Further types on request |

Electrical properties

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| | |
|---|---|
| Power consumption | 4.1 W |
| Local diagnostics | SC, HF, PF, BSA, FAIL INTERBUS LED displays on the module |
| Protective circuit | Reverse polarity protection; Fuse |
| Transmission medium | FO |
| Maximum power dissipation for nominal condition | max. 4 W |

Supply

| | |
|-----------------------------|--|
| Supply voltage | 5 V DC 24 V DC (external, environment class 1) |
| Supply voltage range | 18.5 V DC ... 30.2 V DC (including ripple (0.5 Vpp)) |
| Power supply connection | Via PCI bus (master) and 2-pos. MINI COMBICON (slave part) |
| Typical current consumption | 0.8 A |

Interfaces

| | |
|------------|------------|
| Interrupts | 1 IRQ, PnP |
|------------|------------|

INTERBUS (Master)

| | |
|-------------------|-----------------|
| Connection method | F-SMA connector |
|-------------------|-----------------|

INTERBUS remote bus, incoming

| | |
|-------------------|-----------------|
| Connection method | F-SMA connector |
|-------------------|-----------------|

INTERBUS remote bus, outgoing

| | |
|-------------------|-----------------|
| Connection method | F-SMA connector |
|-------------------|-----------------|

Parameterization/operation/diagnostics

| | |
|-------------------|---------------------------|
| Connection method | RS-232-C, Mini-DIN female |
|-------------------|---------------------------|

Host system

| | |
|-------------------|--|
| Connection method | IBM-compatible PCI slot in acc. with PCI specification 2.1 or higher, PCI bus, 32 bit, 33 MHz, 5 V |
|-------------------|--|

Dimensions

| | |
|--------|--------|
| Width | 168 mm |
| Height | 107 mm |
| Depth | 20 mm |

External dimensions

| | |
|------------------------|-------------------------|
| Width / Height / Depth | 168 mm / 107 mm / 20 mm |
|------------------------|-------------------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 (Must be installed in a device with IP20) |
| Ambient temperature (operation) | 0 °C ... 55 °C (acc. to EN 60204-1) |
| Ambient temperature (storage/transport) | -25 °C ... 75 °C (acc. to EN 60204-1) |
| Permissible humidity (operation) | 75 % (on average, 85% infrequently, non-condensing) |
| Air pressure (operation) | 860 hPa ... 1080 hPa (up to 2000 m above sea level) |

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| | |
|----------------------------------|---|
| Air pressure (storage/transport) | 660 hPa ... 1080 hPa (up to 3000 m above sea level) |
|----------------------------------|---|

Mounting

| | |
|---------------|--------------------|
| Mounting type | In the host system |
|---------------|--------------------|

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Environmental product compliance

EU RoHS

| | |
|---|----------------------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(a), 6(a)-I, 6(c), 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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
| | Lead(CAS: 7439-92-1) |

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