

# IBS ISA SC/486DX/I-T - Termination board



2723945

<https://www.phoenixcontact.com/us/products/2723945>

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Termination board with coprocessor with electrical isolation, incl. driver software and user manual on CD

## Product description

INTERBUS Generation 4 coprocessor card

The IBS ISA SC/486DX/I-T provides the INTERBUS with a powerful PC controller board for high-level language programming of operator PCs in machines and plants. The control and automation programs run on the coprocessor of the IBS ISA SC/486DX/I-T. The PC system is thus free for the visualization of the process signals and parameters connected via INTERBUS.

The globally available PC/104 standard is used as a pluggable embedded PC board for the coprocessor of the IBS ISA SC/486DX/I-T. The control program is programmed with standard compilers such as Borland C or Microsoft C. The programs are developed and tested on the host PC and subsequently downloaded onto the coprocessor board.

There are 8 Mbyte IDE flash available as a local drive for the DOS operating system and the application. For runtime, the application can use the 640 kByte of the DOS operating system. The user-friendly high-level language interface (HLI) can be used for programming the application.

The power is normally supplied via the host PC. An external 5 V connection is available for a power supply independent of the host PC. A failure of the power supply to the host PC has no effect on the operation of the IBS ISA SC/486DX/I-T, the connected INTERBUS or the control program running on the coprocessor.

A built-in power supply unit for the PC ISA slot (24 V IN / 5 V OUT) IBS PC EXT PS/24DC/FIL can also be purchased as an accessory.

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2723945                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | NULL                           |
| Product key                          | DREABA                         |
| GTIN                                 | 4017918154134                  |
| Weight per piece (including packing) | 479.2 g                        |
| Weight per piece (excluding packing) | 479.2 g                        |
| Customs tariff number                | 84733020                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|              |  |
|--------------|--|
| Product type | PLC controller board                               |
| Type         | PC card  |
| Format       | 1 deep slot, (222 x 99 x 35) mm, double slot width |

### System properties

|                        |            |
|------------------------|------------|
| Clock frequency        | 100 MHz    |
| Retentive data storage | NVRAM      |
| Operating system       | Windows NT |

### Addressable areas

|     |   |
|-----|---|
| I/O | 8 bytes, selectable between 100 and 3F8 (hex) |
|-----|---|

### INTERBUS-Master

|  |                           |
|--|---------------------------|
| Amount of process data                   | max. 4096 Byte (INTERBUS) |
| Number of devices with parameter channel | max. 62                   |

### Local diagnostics

|                        |                        |
|------------------------|------------------------|
| Designation            | READY/RUN, FAIL        |
| Monitored function     | INTERBUS               |
| Optical representation | Status display via LED |

### System requirements

|                    |                         |
|--------------------|-------------------------|
| Configuration tool | CMD from version 4.5x   |
| Diagnostics tool   | DIAG+ from version 1.14 |
| Driver             | Windows NT              |

## Electrical properties

|   |   |
|---|---|
| Local diagnostics                               | READY/RUN, FAIL INTERBUS Status display via LED |
|   | READY/RUN Coprocessor Status display via LED    |
|   | UL Power supply Status display via LED          |
| Transmission medium                             | Copper  |
| Maximum power dissipation for nominal condition | max. 12.5 W                                     |

### Supply

|                             |  |
|-----------------------------|--|
| Supply voltage              | 5 V DC   |
| Supply voltage range        | ± 5 % (including ripple)                           |
| Power supply connection     | Via ISA bus or ext. (2-pos. printed circuit board) |
| Typical current consumption | 2.5 A  |

## Interfaces

|            |   |
|------------|---|
| Interrupts | Selectable between IRQ 3, 5, 7, 9, 10, 11, 12, 15 |
|------------|---|

### INTERBUS remote bus

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|                   |  |
|-------------------|--|
| Connection method | 9-pos. D-SUB female connector (optionally optical fiber possible via interface converters) with electrical isolation |
|-------------------|--|

## Parameterization/operation/diagnostics

|                   |                                       |
|-------------------|---------------------------------------|
| Connection method | RS-232-C, D-SUB 9-pos. male connector |
|-------------------|---------------------------------------|

## Host system

|                   |   |
|-------------------|---|
| Connection method | IBM-compatible PCs with ISA slot, from 386 SX processor |
|-------------------|---|

## Dimensions

|        |        |
|--------|--------|
| Width  | 229 mm |
| Height | 107 mm |
| Depth  | 35 mm  |

## External dimensions

|                        |                         |
|------------------------|-------------------------|
| Width / Height / Depth | 229 mm / 107 mm / 35 mm |
|------------------------|-------------------------|

## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP00 |
|----------------------|------|

## Mounting

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

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## Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) |  |
|-------------------------------------|--|
|-------------------------------------|--|

|  |                            |
|--|----------------------------|
|  | No substance above 0.1 wt% |
|--|----------------------------|

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