

Termination board - IBS PCI SC/I-T - 2725260

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PCI master controller board with electrical isolation

Product Description

INTERBUS generation 4 controller board for PCs

With the IBS PCI SC/I-T standard controller, the high-level language programmable ISA bus platform is also extended towards PCI compatibility. The corresponding CMD INTERBUS configurator acts as the central interface to all other tools involved in an automation solution, such as EPLAN, visualization, and programming.

Interfaces that are consistent throughout the system, such as HLI and OPC, offer direct access to the INTERBUS fieldbus system as well as to the runtime system of the controller. Free drivers for Windows NT, XP, and Windows 7 round off the products.

The drivers are not supplied with the board. The necessary software is on the CD and in the user manual, or can be downloaded from this page.

The system packages offered include an inexpensive version consisting of the controller board, user manuals, all drivers (including HLI, but excluding OPC server), and CMD G4.

Product Features

- 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



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	171.1 g
Custom tariff number	84733020
Country of origin	Germany

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	168 mm
Height	107 mm
Depth	20 mm

Ambient conditions

Degree of protection	IP00
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 mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3000 m above sea level)

Control system

Control system	IBM-compatible PCs with PCI slot
Diagnostics tool	DIAG+ from version 1.0x
Configuration tool	CMD from version 4.5x
Operating system	Windows NT
	Windows 2000
	Windows XP
	Windows 7
	Venturcom RTX 5.x
	Further types on request

Software interfaces

Driver	Windows NT
	Windows 2000
	Windows XP
	Windows 7
	Venturcom RTX 5.x
	Further types on request
Application interface	HFI
	OPC
	DDI

Software requirements

Configuration tool	CMD from version 4.5x
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Software requirements

	Config+ from version 1.00 onwards
Diagnostics tool	DIAG+ from version 1.0x

Power supply

Power supply connection	Via PCI bus
Typical current consumption	0.7 A
Supply voltage	5 V DC
Supply voltage range	± 5 % (including ripple)
Power dissipation	max. 3.5 W

General

Weight	126.1 g
Format	Short plug-in card, 1-slot

Data interfaces

Interface	INTERBUS remote bus
Connection method	9-pos. D-SUB female connector, with electrical isolation
Interface	Parameterization/operation/diagnostics
Connection method	RS-232-C, Mini-DIN female
Interface	Host system
Connection method	PCI bus, 32 bit, 33 MHz, 5 V
Interface	Direct I/Os
Connection method	14-pos. FLK pin strip
Interrupts	1 IRQ, PnP

Direct I/Os

Input name	Digital inputs
Number of inputs	6 (EN 61131-2 type 1)
Nominal input voltage U_{IN}	24 V DC
Output name	Digital outputs
Number of outputs	2
Connection method	FLK cable connector (14-pos.)
Maximum output current per channel	0.5 A

Fieldbus function

Amount of process data	max. 8192 Bit (INTERBUS-Master)
Number of supported devices	max. 512 (of which 254 are remote bus devices/bus segments)
Number of devices with parameter channel	max. 126

Standards and Regulations

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Technical data

Standards and Regulations

Connection in acc. with standard	CUL
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Classifications

eCl@ss

eCl@ss 4.0	27240603
eCl@ss 4.1	27240603
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	27242208

ETIM

ETIM 2.0	EC001425
ETIM 3.0	EC001425
ETIM 4.0	EC000236
ETIM 5.0	EC002631

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

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Approvals

Approval details



Accessories

Accessories

Configuration and diagnostics

Software - IBS CMD SWT G4 E - 2721442



Network configuration software for INTERBUS Generation 4

Software - IBS CMD SWT G4 - 2721439



Network configuration software for INTERBUS Generation 4

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Accessories

Software - DIAG+ - 2730307



Diag+, diagnostics software, for INTERBUS networks, area of application: Startup, maintenance and, for example, for integration in control desk software, can be integrated in 32 bit applications (ActiveX-capable)

Software - CONFIG+ OEM - 2700779



Config+ project license, for configuration and diagnostics of an INTERBUS system. Please enter the project number in the configuration field or get in touch with your contact person in our sales organization.

Software - CONFIG+ DEMO - 2868046



Config+ demo version with restricted range of function (it is not possible to save projects)

Software - CONFIG+ - 2868059



Config+ full version for configuration and diagnostics of an INTERBUS system

Software - CONFIG+ CPY - 2868062



The Config+ copy license enables the installation and parallel use of the Config+ software on multiple workstations. A single-user full license is also required. It is a workstation license

Drivers and interfaces

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Accessories

Software - IBS OPC SERVER - 2729127



INTERBUS OPC server, communication interface between distributed INTERBUS and Ethernet networks and visualizations.

Programming cable

Connecting cable - COM CAB MINI DIN - 2400127



Connecting cable, for connecting the controller to a PC (RS-232) for PC WORX with flow control, 3 m in length

System cable

Cable - FLK 14/EZ-DR/ 50/KONFEK - 2288901



Round cable set, with two 14-pos. socket strips (1:1 connection), for connecting 8 channels, cable length: 0.5 m

Interface module - UM 45-FLK14 - 2962557



VARIOFACE module, with screw connection and flat-ribbon cable connector, for assembly on NS 35/7.5, 14 positions

Software - IBS PCI DDK - 2730271



Device driver development kit, for the development of device drivers for individual operating system (German, English)

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Accessories

Software drivers - CD IBS PCI SC RTX - 2737423



Driver and documentation CD incl. Driver as RTDLL, coupling driver for parallel Windows access and HLI interface as RTDLL, incl. online documentation (as development licence)

Mouser Electronics

Authorized Distributor

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