Extract from the online catalog

IBS PCI SC/I-T

Order No.: 2725260



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PCI master controller board with electrical isolation

Commercial data	
GTIN (EAN)	4 017918 185121
sales group	K020
Pack	1 pcs.
Customs tariff	84733020
Catalog page information	Page 122 (AX-2009)

Product notes

WEEE/RoHS-compliant since: 03/27/2008

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Product description

INTERBUS Generation 4 controller board for PCs

The IBS PCI SC/I-T standard controller also provides compatible extension of the high-level language programmable ISA bus platform toward the PCI. The corresponding Interbus configurator CMD forms the central interface to all the other tools involved in an automation solution, such as EPLAN, visualization, and programming.

Highly integrated interfaces, such as HLI and OPC offer direct access to the INTERBUS fieldbus system and the runtime system of the controller. Free drivers for Windows NT round off the range of products.

The drivers are not part of the scope of delivery for the board. The necessary software is on the CD and in the User Manual, or you can download it from this page.

The system packages offered include an economy version consisting of the controller board, the manuals, all the drivers, (incl. HLI, but w/o OPC server) and CMD G4.

Technical data

Control system

Control system	IBM-compatible PCs with PCI slot
Diagnostics tool	DIAG+ from version 1.0x
Configuration tool	CMD from version 4.5x

Software interfaces

Software 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
	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)

General data

Weight	150 g
Format	Short plug-in card, 1-slot
Height	107 mm
Depth	168 mm

Degree of protection	IP00
Ambient temperature (operation)	0 °C ... 55 °C (in acc. with EN 60204-1)
Ambient temperature (storage/transport)	-25 °C ... 75 °C (in acc. with EN 60204-1)
Permissible humidity (operation)	75 % (on average, 85% infrequently, no condensation)
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)

Data interfaces

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

INTERBUS data

Type	INTERBUS master
Number of devices with parameter channel (PCP)	max. 126 (512 words)
Number of PCP data	max. 126
Number of supported devices	max. 512 (of which 254 are remote bus devices/bus segments)
Number of I/O nodes	max. 8192
Direct I/Os	6 inputs, 2 outputs

Certificates / Approvals

Certification	CUL, GOST, UL

Accessories

Item	Designation	Description
Cable/conductor		
2288901	FLK 14/EZ-DR/ 50/KONFEK	Round cable set, with two 14-pos. socket strips (1:1 connection), for connecting 8 channels, cable length: 0.5 m
General		
2985589	CD PC DRIVER	Driver software and documentation on CD-ROM (German and English)
2962557	UM 45-FLK14	VARIOFACE module, with screw connection and flat-ribbon cable connector, for assembly on NS 35/7.5, 14 positions
Plug/Adapter		
2730611	PRG CAB MINI DIN	Connection cable, to connect Remote Field Controllers to a PC (RS-232) for PC WORX, 3 m in length
Software		
2737423	CD IBS PCI SC RTX	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)
2730307	DIAG+	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)
2721439	IBS CMD SWT G4	Network configuration software for INTERBUS Generation 4
2721442	IBS CMD SWT G4 E	Network configuration software for INTERBUS Generation 4
2729127	IBS OPC SERVER	INTERBUS OPC server, communication interface between distributed INTERBUS and Ethernet networks and visualizations.
2730271	IBS PCI DDK	Device driver development kit, for the development of device drivers for individual operating system (German, English)

FAQs

- **Driver update under Windows 2000 (Beta->1.08). Driver parameters are not properly updated.**

  To access the Windows 2000 driver for INTERBUS controller boards IBS PCI SC... with IBS CMD SWT G4 (E) some system parameters have to be updated. Please follow these steps: 1. Uninstall the hardware "PCI-MPM Interbus Controller" with the hardware assistant under Control Panel 2. Delete any files in "<system directory> \INF" e.g. "C:\WINNT\INF" similar to OEM?.INF, OEM??.INF, OEM?.PNF and OEM??.PNF (for example: OEM0.INF, OEM1.INF, OEM2.INF...OEM10.INF, OEM11.INF, OEM12.INF... and OEM0.PNF, OEM1.PNF, OEM2.PNF...OEM10.PNF, OEM11.PNF, OEM12.PNF...). If none of those files appear, you will need to change your file "View" in Windows Explorer: Within Explorer, choose: Tools - Folder Options - View: Select "show hidden files and folders" and make sure "hide file extensions for known file types" is unchecked. 3. Install the new driver using the hardware assistant.

- **Is it possible to implement a bus parameterization with isolated disconnection if an incorrect bus is connected?**

  Yes, it is possible. Before a bus start it however is necessary to activate the configuration frame. Activate configuration frame: Code: 0711 Parameter_Count: 0001 Frame_Reference: 0001 Start bus: Code: 0701

- **The outputs on the controller board cannot be set using the process data monitor in CMD.**

  When the driver is running, the driver application data is cyclically copied to the board memory. However, CMD writes the data using another channel. Therefore, the driver cyclically writes zeros into the output data. This behavior prevents output variables on INTERBUS from being set in the process data monitor using CMD. At present no remedy is possible.

- **Why is no data being transmitted to the controller board, even though the driver and mailbox interface are operating without errors?**

  The problem: Despite the fact that the driver software has been started and INTERBUS is running, no process data can be copied. Communication with the board is possible via the mailbox. Possible cause and remedy: The controller board has been set manually or in the CMD project to asynchronous mode. However, the Windows NT driver only operates in asynchronous with synchronization pulse mode. Under CMD, check the bus operation menu item in the controller board settings. Here asynchronous with synchronization pulse must be selected as the default operating mode for the PCI controller boards. The correct operating mode must be set, especially when transferring existing projects e.g., from IBS PC ISA SC /I-T.

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