

IBS ISA FC/I-T - Termination board



2722027

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Field controller, with electrical isolation including operating system

Product description

Field controller as PC controller board

IBS ISA FC.. from the range of PC cards from Phoenix Contact make it possible to integrate complex control and automation tasks in accordance with IEC 61131 in the operator PCs of machines and systems. The task of universal networking in the control and automation levels is taken over by the INTERBUS system. The field controllers guarantee the reliable connection of sensors, actuators and field devices via INTERBUS and provide autonomous IEC-61131 performance for control tasks, independent of the host. The control and automation programs run on all field controllers independently of the host PC. The PC system is free for the display of the process signals and parameters connected via INTERBUS. The decoupling of the system control from the system visualization, as well as monitoring of the entire system with watchdog circuits guarantee a high level of operational reliability.

The automation software PC WORX is used to ensure universal configuration and programming according to IEC 61131 for all field controllers.

The field controllers from Phoenix Contact are available with variable capacities for different requirements. The compact field controller card, IBS ISA FC/I-T is the basic model for small to medium control tasks, and fits into every PC based operating, control and automation system. Retentive data from the control program are stored in an 8 Kbyte sized NVRAM available on the mother board.

The medium to upper power range is covered by the field controller IBS ISA FC/486DX/I-T which uses the worldwide available PC/104 standard as a high-capacity embedded PC board. The use of the coprocessor board provides the user with an autonomous control solution with adjustable performance that is independent of the PC system.

Commercial data

Item number	2722027
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRABBA
GTIN	4017918140762
Weight per piece (including packing)	190.4 g
Weight per piece (excluding packing)	190.4 g
Customs tariff number	84733020
Country of origin	DE

Technical data

Product properties

Product type	PLC controller board
Type	PC card
Format	1 short slot, 135 x 107 mm

System properties

Retentive data storage	NVRAM
Operating system	Windows NT

Addressable areas

I/O	8 bytes, selectable between 100 and 3F8 (hex)
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IEC 61131 runtime system

Program memory	typ. 384 kByte (32 K instructions (IL))
Number of control tasks	8

INTERBUS-Master

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

Local diagnostics

Designation	MREADY
Monitored function	INTERBUS
Optical representation	Status display via LED

System requirements

Driver	Windows NT
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Electrical properties

Local diagnostics	MREADY INTERBUS Status display via LED
Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 2.5 W

Supply

Supply voltage	5 V DC
Supply voltage range	4.75 V DC ... 5.25 V DC (including ripple)
Power supply connection	Via ISA bus
Typical current consumption	0.5 A (please observe increased inrush current)

Input data

Digital:

Number of inputs	2
Connection method	On-board

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Connection data

Connection method	Via ISA bus
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Interfaces

Interrupts	Selectable between IRQ 3, 5, 7, 9 (2), 10, 11, 12, 15
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INTERBUS remote bus

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

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

Connection method	IBM-compatible PCs with ISA slot, from 386 DX processor
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Dimensions

Width	135 mm
Height	107 mm
Depth	18 mm

External dimensions

Width / Height / Depth	135 mm / 107 mm / 18 mm (1 short slot, 135 mm x 107 mm)
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Mounting

Mounting type	In the host system
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com