


IBS S7 400 ETH DSC/I-T

Order No.: 2731102

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Termination board, with electrical isolation

Commercial data

GTIN (EAN)	 4 017918 185756
sales group	K010
Pack	1 pcs.
Customs tariff	85371091
Catalog page information	Page 119 (AX-2009)

Product notesWEEE/RoHS-compliant since:
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Product description

INTERBUS controller board for Siemens SIMATIC S7-400 PLCs

The IBS S7 400 DSC/I-T INTERBUS controller board permits the INTERBUS to be connected to the SIMATIC S7 400.

The distinguishing features of the controller board are the ease of operation and the numerous processing functions, such as:

Data preprocessing, synchronous operating modes, extended parameterization via CMD, and PCP communication.

The diagnostics display shows operational and error states in plain text, thus reducing startup times to a minimum.

Configuration and programming are carried out in the Step 7 environment.

In addition, the IBS S7 400 ETH DSC/I-T controller board permits several controller boards to be connected, controlled and configured with IBS CMD via a higher level Ethernet network. For this purpose, you can choose between the AUI and the 10Base-T interface.

Technical data

Control system

Control system	SIMATIC® S7-400 controllers
Programming tool	STEP 7 from version 5.x
Diagnostics tool	DIAG+ from version 1.0x
Configuration tool	CMD from version 4.5x

Software interfaces

Application interface	S7 I/O driver
	S7 function blocks

Software requirements

Configuration tool	CMD from version 4.5x
	Config+ from version 1.00 onwards
Diagnostics tool	DIAG+ from version 1.0x
Programming tool	STEP 7 from version 5.x

Power supply

Power supply connection	Via SIMATIC I/O bus
Typical current consumption	2.5 A
Supply voltage	5 V DC

General data

Weight	1200 g
Format	2 slots
Width	50 mm
Height	290 mm
Depth	210 mm
Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 65 °C
Permissible humidity (operation)	30 % (up to 75%, without condensation)
Permissible humidity (storage/transport)	30 % (up to 95%, without condensation)

Air pressure (operation)	860 hPa ... 1080 kPa (up to 1500 m above mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 kPa (up to 3500 m above mean sea level)

Data interfaces

Interface	Control system
Type of connection	SIMATIC® S7-400 P bus
Interface	INTERBUS remote bus
Type of connection	9-pos. D-SUB socket strip
Transmission speed	500 kBit/s / 2 MBit/s
Interface	Parameterization/operation/diagnostics
Type of connection	RS-232-C, D-SUB male connector
Interface	Ethernet
Type of connection	10/100Base-T via RJ45
Interrupts	Are supported

INTERBUS data

Type	INTERBUS master
Number of devices with parameter channel (PCP)	max. 126 (512 words)
Number of supported devices	max. 512 (of which 254 are remote bus devices/bus segments)
Number of I/O nodes	max. 8192

Certificates / Approvals



Certification CUL, GOST, UL

Accessories

Item	Designation	Description
Cable/conductor		
2806862	IBS PRG CAB	Connection cable, to connect the controller boards to the PC (RS-232-C), length 3 m
Memory		
2729389	IBS MC FLASH 2MB	Program and configuration memory, 2 Mbyte

Software

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)
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FAQs

- **Can I store the IP address of my controller board permanently on the parameterization memory (IBS MC FLASH ...)?**

The IP address can be stored on the parameterization memory with device firmware 4.6x or later on the following memory cards (with the layout described below):

27 29 38 9 IBS MC FLASH 2 MB

27 29 39 2 IBS MC FLASH 4 MB

27 12 52 9 IBS MC FLASH 16 MB

27 12 53 2 IBS MC FLASH 32 MB

27 12 54 5 IBS MC FLASH 64 MB

The IP address cannot be stored on the IBS MC FLASH (1 MB) parameterization memory available.

When the controller board is used in conjunction with an IBS MC FLASH (1 MB) memory card, the IP address is stored internally in the device.

- **Function block FC12 MAUWARN**

FC 12 MAUWARN is responsible for detecting incoming event messages of type 5340 with the codes BB5 and BB6 (decline in the transmission quality with optically regulated FO transmission paths in Interbus) and to output the relevant device number. Please note that during startup of the bus system in CMD, a set indication service must be added before enabling the exclusive rights service. The service has the following parameters: (all values are hex values) Service: Set Indication 152 length 3 Indication_Ability 1 Distribution 2 Indication_Code 5340 Attention: No user function or event definition may be generated in CMD as a result of this event as the service would otherwise not be transmitted to the controller.

- **Setting the number of internal FC loops for FC 28 (IB_SYNC)**

Unlike the header for the S7 block (< Version 1.5), the maximum number of internal FC loops is not described in DBW 190 in the IBDB, but is stored in DBW 188.

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