

IBS S7 300 DSC-T - Termination board



2719975

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Controller board for Siemens SIMATIC® S7 300 PLCs



Product description

INTERBUS controller board for Siemens SIMATIC S7-300 PLCs

The IBS S7 300 BC-T and IBS S7 300 DSC-T controller boards allow you to connect SIMATIC S7 300 PLCs to the INTERBUS system.

The IBS S7 300 BC-T basic variant is inexpensive and the emphasis is on easy startup with "Plug & Play" and straightforward operation. The INTERBUS configuration is read in and started automatically when the supply voltage is switched on. Diagnostic and operating statuses are displayed directly on the controller board by several LEDs.

With the convenient high-end IBS S7 300 DSC-T controller board you can extend your performance with:

- Data preprocessing functions
- Synchronous operating modes
- Extended parameterization functions using the IBS CMD SWT G4 software tool, and
- PCP communication

On the outside, the IBS S7 300 DSC-T differs from the basic version in that it has a plug-in parameterization memory and the proven diagnostics display with a separate keyboard for operating the extensive display functions. The diagnostics data are displayed in plain text. This means that any malfunctions can be remedied within a very short period, increasing the availability of your system.

System monitoring is performed by an automatic diagnostic function. The diagnostics data from the control system are naturally also available via a diagnostics register (input word) and can be used for a visualization system, for example.

IBS CMD makes it easy to parameterize INTERBUS. These parameterization data that are on the plug-in type IBS MC FLASH parameterization memory, can then be saved on the controller board. If the controller board is replaced, the entire INTERBUS parameterization on the FLASH card can simply be plugged into a new board.

The sensor and actuator data are displayed and edited as with the Siemens input/output modules in STEP7.

The INTERBUS system is controlled via a function register. Frequently used diagnostic and control functions (e.g. by passing devices and switching them on and off, erasing the diagnostic display, acknowledging messages) can be called up directly by simply setting outputs.

Your advantages

- Blocks for STEP 7 simplify integration
- INTERBUS with up to 8192 I/O points per controller board
- Maximum INTERBUS transmission speed of 2 Mbaud

Commercial data

Item number	2719975
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR14
Product key	DREAAA
GTIN	4017918132293
Weight per piece (including packing)	709.8 g

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Weight per piece (excluding packing)	686 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Type	SIMATIC® S7 300 controller board
Set comprises	2721303 IBS S7 300 SYSKIT 2721316 IBS S7 300 SYSKIT E
Format	1 slot

System properties

Control system	SIMATIC® S7-300 controllers
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Addressable areas

Occupied analog address area	16 bytes inputs and 16 bytes outputs
INTERBUS I/O data	256 Byte

INTERBUS-Master

Amount of process data	max. 8192 bit
Number of devices with parameter channel	max. 126 (512 words)

Local diagnostics

Monitored function	Operating status, error status, I/O status
Optical representation	Via four-line LCD

Functionality

Control system	SIMATIC® S7-300 controllers
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System requirements

Configuration tool	CMD from Version 4.0x Config+ from version 1.10 onwards
Diagnostics tool	DIAG+ from version 1.0x
Application interface	S7 I/O driver S7 function blocks

Electrical properties

Local diagnostics	Operating status, error status, I/O status Via four-line LCD
Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 7.2 W

Supply

Supply voltage	24 V DC
Power supply connection	External power supply

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Max. current consumption	300 mA (at 24 V DC, max. 10 mA from S7-300 I/O bus)
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Interfaces

Interrupts	Process alarm
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Control system

Connection method	SIMATIC® S7-300-I/O-Bus
Transmission speed	500 kbps / 2 Mbps (can be switched)

INTERBUS remote bus

Connection method	9-pos. D-SUB socket strip
Transmission speed	500 kbps / 2 Mbps (can be switched)

Parameterization/operation/diagnostics

Connection method	RS-232-C, D-SUB male connector
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Dimensions

Width	80 mm
Height	125 mm
Depth	110 mm

External dimensions

Width / Height / Depth	80 mm / 125 mm / 110 mm (1 slot)
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Material specifications

Color	black
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C (0 °C ... 40 °C (vertical installation))
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 %, no condensation)
Air pressure (operation)	860 hPa ... 1080 kPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 kPa (up to 3500 m above sea level)

Mounting

Mounting type	In the host system
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Environmental product compliance

EU RoHS

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

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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