

# Termination board - IBS S7 300 DSC-T - 2719975

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Termination 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.

## Product Features

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



## Key commercial data

package_quantity	1
GTIN	4017918132293

## Technical data

### Note

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

Width	80 mm
Height	125 mm

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## Technical data

### Dimensions

<b>Depth</b>	110 mm
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### Ambient conditions

<b>Degree of protection</b>	IP20
<b>Ambient temperature (operation)</b>	0 °C ... 60 °C (0°C to 40°C (vertical installation))
<b>Ambient temperature (storage/transport)</b>	-25 °C ... 65 °C
<b>Permissible humidity (operation)</b>	30 % (up to 75%, no condensation)
<b>Permissible humidity (storage/transport)</b>	30 % (up to 95%, no condensation)
<b>Air pressure (operation)</b>	860 hPa ... 1080 kPa (up to 1500 m above mean sea level)
<b>Air pressure (storage/transport)</b>	660 hPa ... 1080 kPa (up to 3500 m above mean sea level)

### Control system

<b>Control system</b>	SIMATIC® S7-300 controllers
<b>Programming tool</b>	STEP 7 from version 5.x
<b>Diagnostics tool</b>	DIAG+ from version 1.0x
<b>Configuration tool</b>	CMD from Version 4.0x

### Software interfaces

<b>Application interface</b>	S7 I/O driver
<b>Application interface</b>	S7 function blocks

### Software requirements

<b>Configuration tool</b>	CMD from Version 4.0x
<b>Configuration tool</b>	Config+ from version 1.10 onwards
<b>Diagnostics tool</b>	DIAG+ from version 1.0x
<b>Programming tool</b>	STEP 7 from version 5.x

### Power supply

<b>Power supply connection</b>	External power supply
<b>Max. current consumption</b>	300 mA (at 24 V DC, max. 10 mA from S7-300 I/O bus)
<b>Supply voltage</b>	24 V DC

### General

<b>Weight</b>	686 g
<b>Format</b>	1 slot

### Data interfaces

<b>Interface</b>	Control system
<b>Connection method</b>	SIMATIC® S7-300 I/O bus
<b>Interface</b>	INTERBUS remote bus
<b>Connection method</b>	9-pos. D-SUB socket strip
<b>Transmission speed</b>	500 kBit/s / 2 MBit/s
<b>Interface</b>	Parameterization/operation/diagnostics
<b>Connection method</b>	RS-232-C, D-SUB male connector
<b>Interrupts</b>	Process alarm

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## Technical data

### Fieldbus function

Amount of process data	max. 8192 Bit
Number of supported devices	max. 128 (of which 254 are remote bus devices/bus segments)
Number of devices with parameter channel	max. 126 (512 words)
Module classification	INTERBUS master

## classifications

### eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	27242208

### ETIM

ETIM 2.0	EC001423
ETIM 3.0	EC001423
ETIM 4.0	EC001423
ETIM 5.0	EC001423


### UNSPSC

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

## approvals

UL Recognized / cUL Recognized / GOST / UL Recognized / cUL Recognized / GOST / cULus Recognized /

### Approval details

	
Nominal voltage UN	24 V
Nominal current IN	0.3 A
mm <sup>2</sup> /AWG/kcmil	30-12

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approvals

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<b>GOST</b>
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<b>cULus Recognized</b>
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accessories

**Programming cable**

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accessories

IBS PRG CAB - 2806862



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## Parameterization memory

IBS MC FLASH 2MB - 2729389



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## Configuration and diagnostics

DIAG+ - 2730307



CONFIG+ OEM - 2700779



CONFIG+ DEMO - 2868046



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### accessories

CONFIG+ - 2868059



CONFIG+ CPY - 2868062



IBS CMD SWT G4 - 2721439



IBS CMD SWT G4 E - 2721442



### Device parameterization

AX+ BASIC - 2985068



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accessories

AX DTM LIB - 2988065



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## Drawings

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