

# IBS S7 400 ETH DSC/I-T - Termination board



2731102

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Termination board, with electrical isolation



## 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 AUJ and the 10Base-T interface.

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2731102                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DR14                           |
| Product key                          | DREAAA                         |
| GTIN                                 | 4017918185756                  |
| Weight per piece (including packing) | 1,234.1 g                      |
| Weight per piece (excluding packing) | 1,220 g                        |
| Customs tariff number                | 85371091                       |
| Country of origin                    | DE                             |

## Technical data

### Notes

#### Utilization restriction

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

### Product properties

|               |                                   |
|---------------|-----------------------------------|
| Type          | SIMATIC ® S7 400 controller board |
| Set comprises | 2740067 IBS S7 400 ETH SYSKIT     |
|               | 2740070 IBS S7 400 ETH SYSKIT E   |
| Format        | 2 slots                           |

### System properties

|                |                             |
|----------------|-----------------------------|
| Control system | SIMATIC® S7-400 controllers |
|----------------|-----------------------------|

#### 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® S7-400 controllers |
|----------------|-----------------------------|

#### System requirements

|                       |                                   |
|-----------------------|-----------------------------------|
| Configuration tool    | CMD from version 4.5x             |
|                       | Config+ from version 1.00 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 |
|                                                 | LINK, RECEIVE, TRANSMIT Ethernet Status display via LED      |
| Transmission medium                             | Copper                                                       |
| Maximum power dissipation for nominal condition | max. 12.5 W                                                  |

#### Supply

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

### Interfaces

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|            |               |
|------------|---------------|
| Interrupts | Are supported |
|------------|---------------|

## Control system

|                    |                                       |
|--------------------|---------------------------------------|
| Connection method  | SIMATIC® S7-400 P-Bus                 |
| Transmission speed | 500 kBaud / 2 MBaud (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 |
|-------------------|--------------------------------|

## Ethernet

|                   |                       |
|-------------------|-----------------------|
| Connection method | 10/100Base-T via RJ45 |
|-------------------|-----------------------|

## Dimensions

|        |        |
|--------|--------|
| Width  | 50 mm  |
| Height | 290 mm |
| Depth  | 210 mm |

## External dimensions

|                        |                         |
|------------------------|-------------------------|
| Width / Height / Depth | 50 mm / 290 mm / 210 mm |
|------------------------|-------------------------|

## Material specifications

|       |       |
|-------|-------|
| Color | black |
|-------|-------|

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                     |
|------------------------------------------|-----------------------------------------------------|
| 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 %, 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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
|                                     | Lead(CAS: 7439-92-1)                        |

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