

SIMATIC S7-1500

Installation Instructions

6ES7521-1BH00-0AB0

S7-1500 16-Channel Input Module

PRODUCT TYPE	DIGITAL INPUTS	RATED INPUT	SUPPLY RANGE
DI 16x24VDC HF	16 in one group	24 V DC	19.2–28.8 V DC

01 PRODUCT VERIFICATION

Article number	6ES7521-1BH00-0AB0
Product	S7-1500 16-Channel Input Module
Family	SIMATIC S7-1500
Product type	DI 16x24VDC HF
Digital inputs	16 in one group
Rated input	24 V DC
Supply range	19.2–28.8 V DC
Input characteristic	IEC 61131 type 3

02 BEFORE INSTALLATION

- Switch off the S7-1500 or ET 200MP station and every connected 24 V DC field circuit before work.
- Confirm the module slot, front-connector type and configured hardware version before inserting the replacement module.

03 OFFICIAL INSTALLATION DRAWING

The selected Siemens source page is retained as the installation and wiring reference. Use the current controlled manual for final work.

Wiring

3

This section contains the block diagram of the module and outlines various wiring options. You can find information on wiring the front connector, creating a cable shield, etc. in the Wiring section of the S7-1500/ET 200MP (<http://support.automation.siemens.com/WW/view/en/59191792>) system manual.

Wiring and block diagram

The figure below shows you how to wire the module and the assignment of the channels to the addresses (input byte a to input byte b). You can set parameters so that channels 0 and 1 are used for counting. Channels 2 to 15 can continue to be used as digital inputs.

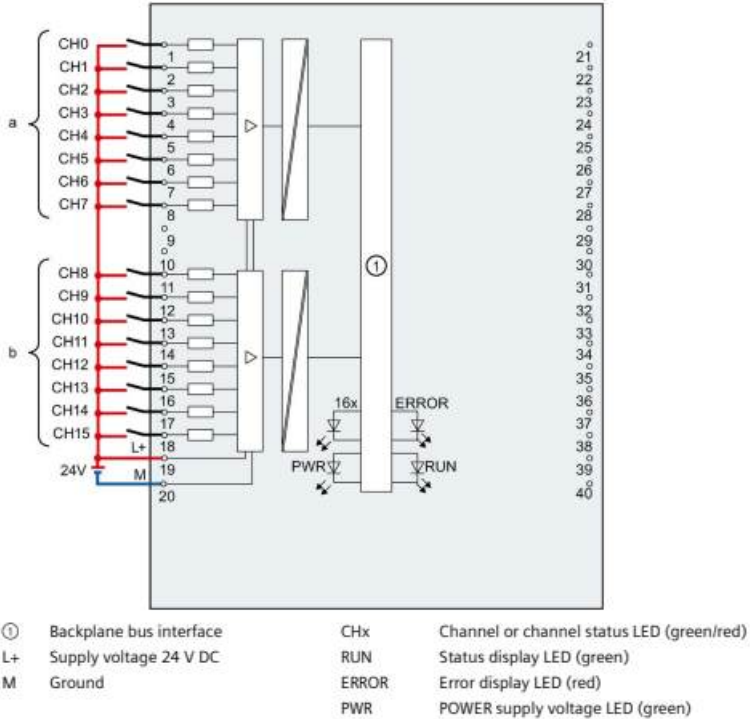


Figure 3-1 Block diagram and terminal assignment

04 INSTALLATION SEQUENCE

01

Switch off the S7-1500 or ET 200MP station and every connected 24 V DC field circuit before work.

02

Confirm the module slot, front-connector type and configured hardware version before inserting the replacement module.

03

Wire the sixteen input channels, L+ and M according to the official block diagram and selected sensor type.

04

Set input delay, diagnostics, hardware interrupts and counter use for channels 0 and 1 before commissioning.

05 OFFICIAL DOCUMENTATION

DI 16x24VDC HF Digital Input Module Equipment Manual (A5E03485952-AH)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

06 SUPPORT CONTACT

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