

SIMATIC S7-1500

Installation Instructions

6ES7521-1BL00-0AB0

S7-1500 32-Channel Input Module

PRODUCT TYPE	DIGITAL INPUTS	CHANNEL GROUPS	RATED INPUT
DI 32x24VDC HF	32	2 groups of 16	24 V DC

01 PRODUCT VERIFICATION

Article number	6ES7521-1BL00-0AB0
Product	S7-1500 32-Channel Input Module
Family	SIMATIC S7-1500
Product type	DI 32x24VDC HF
Digital inputs	32
Channel groups	2 groups of 16
Rated input	24 V DC
Supply range	19.2–28.8 V DC

02 BEFORE INSTALLATION

- Switch off the S7-1500 or ET 200MP station and both 24 V DC input groups before work.
- Confirm the configured slot, hardware version and separately ordered 40-pin front connector before replacement.

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 will find information on wiring the front connector, establishing a cable shield, etc in the system manual S7-1500/ET 200MP (<http://support.automation.siemens.com/WW/view/en/59191792>) in section Wiring.

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 d). You can set parameters so that channels 0 and 1 are used for counting. Channels 2 to 31 can continue to be used as digital inputs.

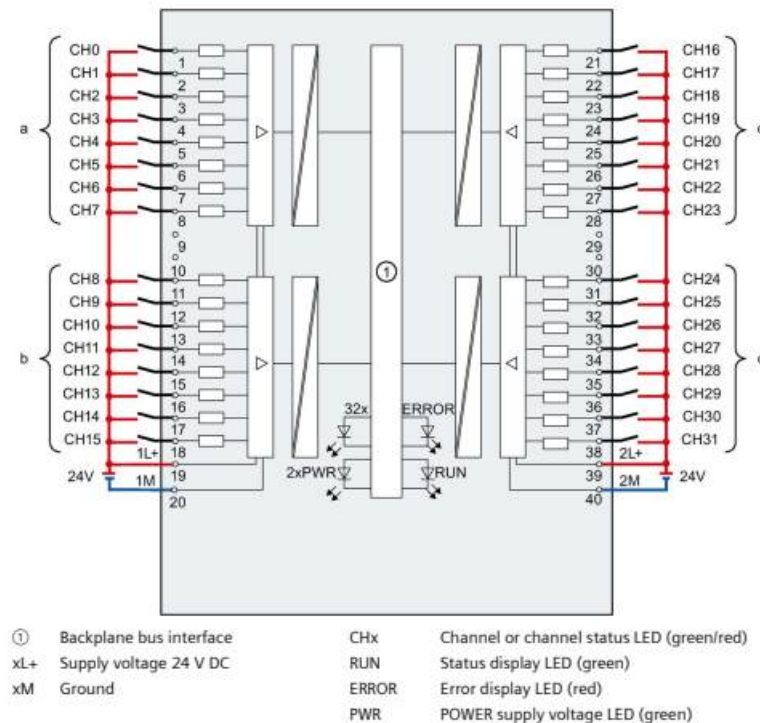


Figure 3-1 Block diagram and terminal assignment

DI 32x24VDC HF digital input module (6ES7521-1BL00-0AB0)
Equipment Manual, 05/2022, A5E03485935-AH

04 INSTALLATION SEQUENCE

01

Switch off the S7-1500 or ET 200MP station and both 24 V DC input groups before work.

02

Confirm the configured slot, hardware version and separately ordered 40-pin front connector before replacement.

03

Wire both L+/M groups and all field inputs according to the Siemens terminal assignment and sensor type.

04

Verify delays, diagnostics, hardware interrupts and channels 0 and 1 counter parameters before startup.

05 OFFICIAL DOCUMENTATION

DI 32x24VDC HF Digital Input Module Equipment Manual (A5E03485935-AH)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

06 SUPPORT CONTACT

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