

SIMATIC S7-1500

Product Data Sheet

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

Siemens 6ES7521-1BL00-0AB0 is a thirty-two-channel S7-1500 24 V DC high-feature input module with diagnostics, interrupts and two counters.

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VERIFIED TECHNICAL DATA

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
Current consumption	40 mA maximum
Power loss	4.2 W typical
Counter channels	2 maximum

Values are limited to this exact Siemens order number and the cited official manual.

02

ADDITIONAL VERIFIED DATA

Counting frequency	6 kHz maximum
Counter width	32 bit
Input delay	0.05–20 ms configurable
Signal 0 range	–30 to +5 V
Signal 1 range	+11 to +30 V
Signal 1 current	2.5 mA typical
Shielded cable length	1000 m maximum

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PRODUCT FUNCTION

The module collects high-density switch and proximity-sensor signals in two isolated groups of sixteen, with configurable 0.05–20 ms delays and optional counting on channels 0 and 1.

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OFFICIAL APPLICATIONS

- Automated assembly line sensor-state acquisition
- Material-handling conveyor sensor input monitoring
- Batch-process equipment digital status feedback
- Packaging line switch and sensor collection
- Production machine high-density digital inputs

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OFFICIAL SOURCES

[Siemens exact product record](#)

[DI 32x24VDC HF Digital Input Module Equipment Manual](#)

AMIKON PRODUCT SUPPORT

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