

SIMATIC S7-1500

Product Data Sheet

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

Siemens 6ES7521-1BH00-0AB0 is a sixteen-channel S7-1500 24 V DC high-feature digital input module with diagnostics and counter functions.

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VERIFIED TECHNICAL DATA

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
Current consumption	20 mA maximum
Power loss	2.6 W typical
Counter channels	2 maximum

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

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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 accepts switches and two-, three- or four-wire proximity sensors, provides configurable 0.05–20 ms input delay and allows channels 0 and 1 to operate as 32-bit counters up to 6 kHz.

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OFFICIAL APPLICATIONS

- Packaging machine sensor and limit-switch monitoring
- Conveyor position feedback in automated production lines
- Automated machine-cell proximity sensor acquisition
- Color-mixing station digital input processing
- High-speed count inputs for production equipment

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OFFICIAL SOURCES

[Siemens exact product record](#)

[DI 16x24VDC HF Digital Input Module Equipment Manual](#)

AMIKON PRODUCT SUPPORT

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