

SIMATIC S7-1500

Product Data Sheet

6ES7521-1FH00-0AA0

SM 521 16-Channel Digital Input Module

INPUTS	VOLTAGE	DELAY	GROUPING
16 AC	120/230 V AC	20 ms	4 × 4

Siemens 6ES7521-1FH00-0AA0 is an S7-1500 SM 521 digital input module with sixteen 120/230 V AC inputs.

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VERIFIED TECHNICAL DATA

Product type	SM 521 DI 16x230 V AC BA
Digital inputs	16
Channel grouping	4 groups of 4
Input type	P-reading, IEC 61131 Type 1
Rated input voltage	120/230 V AC
Input frequency	50/60 Hz
Signal 0 range	0–40 V AC
Signal 1 range	79–264 V AC

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

02

ADDITIONAL VERIFIED DATA

Input current at 230 V	11 mA typical
Input delay	20 ms nominal; 25 ms maximum
Backplane power	1 W
Power loss	4.9 W
Unshielded cable length	600 m maximum
Dimensions W × H × D	35 × 147 × 129 mm
Weight	Approx. 300 g

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PRODUCT FUNCTION

The exact module provides 16 P-reading inputs in groups of four, a 20 ms nominal input delay, Type 1 input characteristics and status indication for each channel.

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OFFICIAL APPLICATIONS

- 120 V AC status-signal acquisition
- 230 V AC status-signal acquisition
- Contactor and relay feedback monitoring
- Mains-voltage limit-switch monitoring
- Grouped AC field-input acquisition

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OFFICIAL SOURCES

[Siemens exact product record](#)

[SIMATIC S7-1500 SM 521 Technical Data](#)

AMIKON PRODUCT SUPPORT

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