

SIMATIC S7-1200

Product Data Sheet

6ES7221-3BD30-0XB0

SB 1221 4DI 200 kHz Signal Board

INPUTS	VOLTAGE	HSC	WEIGHT
4 source	24 V DC	200 kHz	35 g

Siemens 6ES7221-3BD30-0XB0 is a compact S7-1200 SB 1221 digital-input signal board with four 24 V DC sourcing inputs.

01

VERIFIED TECHNICAL DATA

Product type	SB 1221 digital input board
Digital inputs	4
Input type	Current-sourcing
Rated input	24 V DC at 7 mA nominal
Continuous input voltage	28.8 V DC
Surge input voltage	35 V DC for 0.5 s
Single-phase HSC rate	200 kHz maximum
Quadrature HSC rate	160 kHz maximum

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

02

ADDITIONAL VERIFIED DATA

SM bus current	40 mA
Power dissipation	1.5 W
Input filter	0.1 μ s to 20 ms, parameterizable
Shielded cable length	50 m maximum, twisted pair
Isolation	707 V DC type test
Dimensions W $\times$ H $\times$ D	38 $\times$ 62 $\times$ 21 mm
Weight	35 g

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PRODUCT FUNCTION

The S7-1200 system manual specifies parameterizable input filters, 200 kHz single-phase and 160 kHz quadrature high-speed input rates, status indication and 50 m maximum shielded twisted-pair cabling.

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OFFICIAL APPLICATIONS

- 24 V DC sourcing digital-input acquisition
- Single-phase high-speed counting up to 200 kHz
- Quadrature-phase counting up to 160 kHz
- Parameterizable interrupt inputs
- Digital inputs for technological functions

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OFFICIAL SOURCES

[Siemens exact product record](#)

[S7-1200 Programmable Controller System Manual](#)

AMIKON PRODUCT SUPPORT

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