

SIMATIC S7-1200

Product Data Sheet

6ES7231-4HA30-0XB0

SB 1231 Analog Input Signal Board

INPUT	VOLTAGE	CURRENT	RESOLUTION
1 differential	±10 V DC	0–20 mA	11 bit + sign

Siemens 6ES7231-4HA30-0XB0 is an S7-1200 SB 1231 analog input signal board with one differential voltage or current input.

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VERIFIED TECHNICAL DATA

Product type	SB 1231 AI 1x12 bit
Analog inputs	1 differential input
Voltage range	±10 V DC
Current range	0–20 mA
Resolution	11 bit plus sign
Rated supply	24 V DC
Backplane current	55 mA typical
Power loss	0.4 W

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

02

ADDITIONAL VERIFIED DATA

Maximum cycle time	156.25 μ s at 400 Hz suppression
Cable type	Shielded twisted pair
Maximum cable length	100 m
Basic error at 25 °C	$\pm 0.3\%$
Horizontal operating temperature	-20 to +60 °C
Dimensions W $\times$ H $\times$ D	38 $\times$ 62 $\times$ 21 mm
Weight	Approx. 35 g

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PRODUCT FUNCTION

The exact board supports ± 10 V DC or 0–20 mA measurement, 11-bit plus sign resolution, parameterizable integration and smoothing, and a maximum 100 m shielded twisted-pair cable.

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OFFICIAL APPLICATIONS

- ± 10 V analog signal measurement
- 0–20 mA process-current measurement
- Differential analog acquisition
- Filtered sensor-signal acquisition
- Single-channel analog expansion of an S7-1200 CPU

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OFFICIAL SOURCES

[Siemens exact product record](#)

[SIMATIC S7-1200 SB 1231 Technical Data](#)

AMIKON PRODUCT SUPPORT

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