

APTER POWER PRODUCT MANUAL

6ES7288-5AE01-0AA0

SIMATIC S7-200 SMART SB AE01 Analog Input Signal Board

The Siemens 6ES7288-5AE01-0AA0 is a SIMATIC S7-200 SMART SB AE01 Analog Input Signal Board that provides one compact analog input channel for voltage or current measurement.

In an S7-200 SMART automation station, it converts one configured voltage or current process signal into a 12-bit maximum digital value. It works with the exact CPU, expansion-bus or signal-board interface, wiring, field devices, and project configuration specified for the complete article number. It is applied in single pressure, level, flow, potentiometer, and machine-reference signals.

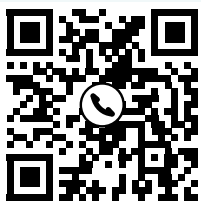
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

One analog measurement. Tiny footprint. Precise machine feedback.

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SCAN FOR PRODUCT & QUOTE
6ES7288-5AE01-0AA0

1. Product Overview and Identity

The Siemens 6ES7288-5AE01-0AA0 is a SIMATIC S7-200 SMART SB AE01 Analog Input Signal Board that provides one compact analog input channel for voltage or current measurement.

In an S7-200 SMART automation station, it converts one configured voltage or current process signal into a 12-bit maximum digital value. It works with the exact CPU, expansion-bus or signal-board interface, wiring, field devices, and project configuration specified for the complete article number. It is applied in single pressure, level, flow, potentiometer, and machine-reference signals.

Model Configuration

Field	Verified information
Complete model	6ES7288-5AE01-0AA0
Manufacturer	Siemens
Product description	SIMATIC S7-200 SMART SB AE01 Analog Input Signal Board

Key Features

- Exact Siemens MLFB 6ES7288-5AE01-0AA0
- SIMATIC S7-200 SMART SB AE01 Analog Input Signal Board
- 1 analog input for voltage or current
- Powered through a compatible S7-200 SMART CPU signal-board interface
- 35 x 52.2 x 16 mm
- 0.02 kg approximate device weight

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Product type	SIMATIC S7-200 SMART SB AE01 Analog Input Signal Board
Complete article number	6ES7288-5AE01-0AA0
System	SIMATIC S7-200 SMART
Primary function	one compact analog input channel for voltage or current measurement
Signal configuration	1 analog input for voltage or current
Supply / host interface	Powered through a compatible S7-200 SMART CPU signal-board interface
Product type designation	SB AE01, AI 1x12 bit
Analog inputs	1
Voltage ranges	+/-10 V, +/-5 V, +/-2.5 V
Current range	0 to 20 mA
Maximum resolution	12 bit
Power loss	0.4 W
Degree of protection	IP20
Device dimensions	35 x 52.2 x 16 mm (W x H x D)
Approximate device weight	0.02 kg
Country of origin	Germany
Lifecycle	The exact article number is documented in current Siemens technical data and product records; confirm regional ordering availability at quotation.

Verification Note

Use the complete 6ES7288-5AE01-0AA0 identifier. The exact article number is documented in current Siemens technical data and product records; confirm regional ordering availability at quotation. Values not published in the cited Siemens sources are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- Converts one configured voltage or current process signal into a 12-bit maximum digital value.
- Maintains the documented SB AE01 function for the complete 6ES7288-5AE01-0AA0 article number.
- Provides a model-specific basis for wiring, configuration, commissioning, diagnostics, and replacement verification.

Application Areas

Application	System role
Process-variable acquisition	Converts 1 analog input for voltage or current into controller values
Machine feedback	Brings compatible transmitters, potentiometers, and analog references into the control program
Trend and limit monitoring	Supports single pressure, level, flow, potentiometer, and machine-reference signals when signal ranges and scaling are configured correctly
Compact panel expansion	Adds analog measurement without changing the documented signal type

Compatible Components

- S7-200 SMART CPU whose documentation explicitly supports 6ES7288-5AE01-0AA0
- Compatible CPU signal-board slot, cover, connector, and mechanical arrangement
- STEP 7 Micro/WIN SMART hardware configuration and firmware matched to the exact CPU and board
- Field cable, shielding, grounding, and connected devices matched to the published interface

Lifecycle Status

The exact article number is documented in current Siemens technical data and product records; confirm regional ordering availability at quotation.

4. Installation Precautions

- Identity: Match every character of 6ES7288-5AE01-0AA0 and the SB AE01 marking to the physical nameplate and project
- Host and power: Verify Powered through a compatible S7-200 SMART CPU signal-board interface; isolate all energy sources before insertion, removal, or wiring
- Signals: Configure every channel for the documented signal type and range; observe polarity, reference, load, and diagnostic limits
- Cabling: Follow Siemens terminal, shielding, grounding, separation, and maximum cable-length instructions
- Commissioning: Verify addresses and scaling, energize one circuit group at a time, test fail-safe behavior, and record results

STOP - Verify before installation

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Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens official technical data sheet or product record for 6ES7288-5AE01-0AA0: <https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7288-5AE01-0AA0>; Siemens official system manual used for model-specific installation and compatibility context:

https://support.industry.siemens.com/cs/attachments/109745610/s7-200_SMART_system_manual_en-US.pdf

Apter Power product page

<https://www.apterpower.com/Siemens/6es7288-5ae01-0aa0>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.