

APTER POWER PRODUCT MANUAL

6ES7288-5AQ01-0AA0

SIMATIC S7-200 SMART SB AQ01 Analog Output Signal Board

The Siemens 6ES7288-5AQ01-0AA0 is a SIMATIC S7-200 SMART SB AQ01 Analog Output Signal Board that provides one analog output channel for -10 V to +10 V or 0 to 20 mA.

In an S7-200 SMART automation station, it converts one controller output value into a configured voltage or current command with onboard diagnostics. 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 drive references, control valves, analog indicators, and compact actuator commands.

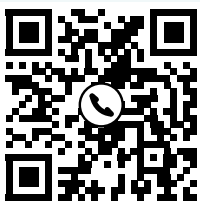
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

**One analog command. Voltage or current.
Compact actuator control.**

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SCAN FOR PRODUCT & QUOTE
6ES7288-5AQ01-0AA0

1. Product Overview and Identity

The Siemens 6ES7288-5AQ01-0AA0 is a SIMATIC S7-200 SMART SB AQ01 Analog Output Signal Board that provides one analog output channel for -10 V to +10 V or 0 to 20 mA.

In an S7-200 SMART automation station, it converts one controller output value into a configured voltage or current command with onboard diagnostics. 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 drive references, control valves, analog indicators, and compact actuator commands.

Model Configuration

Field	Verified information
Complete model	6ES7288-5AQ01-0AA0
Manufacturer	Siemens
Product description	SIMATIC S7-200 SMART SB AQ01 Analog Output Signal Board

Key Features

- Exact Siemens MLFB 6ES7288-5AQ01-0AA0
- SIMATIC S7-200 SMART SB AQ01 Analog Output Signal Board
- 1 analog output for voltage or current
- Powered by the compatible CPU and wired according to the Siemens signal-board instructions
- 35 x 52.2 x 16 mm
- 0.0174 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 AQ01 Analog Output Signal Board
Complete article number	6ES7288-5AQ01-0AA0
System	SIMATIC S7-200 SMART
Primary function	one analog output channel for -10 V to +10 V or 0 to 20 mA
Signal configuration	1 analog output for voltage or current
Supply / host interface	Powered by the compatible CPU and wired according to the Siemens signal-board instructions
Product type designation	SB AQ01, AQ 1x12 bit
Analog outputs	1; current or voltage
Voltage output range	-10 V to +10 V
Current output range	0 to 20 mA
Maximum resolution	12 bit; voltage mode 11 bit plus sign
Diagnostics	Wire break and short circuit
Power loss	1.5 W
Degree of protection	IP20
Device dimensions	35 x 52.2 x 16 mm (W x H x D)
Approximate device weight	0.0174 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 6ES7288-5AQ01-0AA0 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 controller output value into a configured voltage or current command with onboard diagnostics.
- Maintains the documented SB AQ01 function for the complete 6ES7288-5AQ01-0AA0 article number.
- Provides a model-specific basis for wiring, configuration, commissioning, diagnostics, and replacement verification.

Application Areas

Application	System role
Analog actuator command	Generates 1 analog output for voltage or current from PLC output values
Drive and valve reference	Provides configured voltage or current commands to compatible field devices
Setpoint transmission	Supports single drive references, control valves, analog indicators, and compact actuator commands with documented load and signal limits
Compact panel expansion	Adds analog command capability while preserving exact MLFB verification

Compatible Components

- S7-200 SMART CPU whose documentation explicitly supports 6ES7288-5AQ01-0AA0
- 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 6ES7288-5AQ01-0AA0 and the SB AQ01 marking to the physical nameplate and project
- Host and power: Verify Powered by the compatible CPU and wired according to the Siemens signal-board instructions; 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

Use the complete 6ES7288-5AQ01-0AA0 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.

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 6ES7288-5AQ01-0AA0: <https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7288-5AQ01-0AA0>; 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/6es7288-5aq01-0aa0>

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.