MOORE AUTOMATION TECHNICAL DATA SHEET

6ES7288-5BA01-0AA0

Siemens SIMATIC S7-200 SMART SB BA01 Battery Board

Exact article	6ES7288-5BA01-0AA0	Product family	SIMATIC S7-200 SMART

FUNCTION	MODULE SIZE	WEIGHT	LIFECYCLE
RTC support	35 x 52.2 x 16 mm	Approx. 20 g	Active Product

Verified technical characteristics

PARAMETER	ARTICLE-SPECIFIC VALUE
Article number	6ES7288-5BA01-0AA0
Product designation	Battery board
System family	SIMATIC S7-200 SMART
Primary function	Supports the real-time clock
Width	35 mm
Height	52.2 mm
Depth	16 mm
Approximate product weight	20 g
Current Siemens lifecycle	Active Product
Official approvals listed	EU and UK declarations, China RoHS, EAC

IMPORTANT This sheet is tied to the exact Siemens article number. Confirm the supplied hardware version, firmware, electrical ratings and current manufacturer documentation before installation.

APPLICATION AND COMMISSIONING GUIDE

Engineering checks for 6ES7288-5BA01-0AA0

Application-fit matrix

APPLICATION CONTEXT	ENGINEERING FIT
Time-stamped machine events	Helps an S7-200 SMART installation maintain useful real-time-clock operation when the application depends on time records.
Batch and shift records	Supports controller projects that associate process data with calendar time.
Maintenance logging	Useful where service events or operating-hour records must be correlated with the controller clock.
Panel retrofit work	A compact accessory for a verified S7-200 SMART CPU configuration that requires RTC support.

Six-point verification workflow

01 Match article identity

Confirm the complete order number 6ES7288-5BA01-0AA0 on the supplied nameplate.

02 Check electrical design

Verify supply, input, output and interface ratings against the actual panel wiring.

03 Confirm system compatibility

Match the SIMATIC S7-200 SMART hardware, firmware, accessories and engineering project.

04 Inspect installation conditions

Check terminal assignment, grounding, cable routing, ventilation and environmental limits.

05 Commission with evidence

Record supply measurements, diagnostics, I/O tests, communication status and the validated project backup.

06 Approve replacement

Release the unit only after the application owner confirms functional and safety checks.

Article-specific engineering notes

Compatibility first

Confirm that the exact CPU and hardware revision accepts the S7-200 SMART battery board before installation.

Clock support scope

The board supports real-time-clock operation; it is not a substitute for program-memory backup or an external uninterruptible power supply.

SOURCE BASIS

Prepared by Moore Automation from the article-specific records identified as Siemens SiePortal product page, Siemens official technical data. This independent technical sheet is not a Siemens-issued manual and does not replace current manufacturer instructions for installation, wiring, safety or certification.

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