

SIMATIC S7-200 SMART

Product Data Sheet

6ES7288-1ST40-0AA1

CPU ST40 DC/DC/DC

TOTAL MEMORY	ONBOARD I/O	SUPPLY	WEIGHT
40 KB	24 DI + 16 DQ	24 V DC	0.410 kg

Siemens 6ES7288-1ST40-0AA1 is a SIMATIC S7-200 SMART CPU ST40 for compact automation. It combines a 24 V DC supply, twenty-four digital inputs, sixteen transistor outputs, PROFINET and integrated RS485 communication.

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VERIFIED TECHNICAL DATA

Product type	SIMATIC S7-200 SMART CPU ST40
Power supply	20.4 to 28.8 V DC
Onboard digital inputs	24 points, rated 24 V DC
Onboard digital outputs	16 transistor outputs, 24 V DC
Program / data memory	24 KB / 16 KB
Expansion	6 modules and 1 signal board max.
Communication	PROFINET and integrated RS485
Pulse outputs	3 at 100 kHz
Dimensions / weight	125 x 100 x 81 mm / 0.410 kg
Origin / commodity code	Germany / 85371091

Technical values are limited to the exact Siemens product record and applicable official manual.

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PRODUCT IDENTITY AND FUNCTION

The CPU ST40 is a DC/DC/DC controller engineered with STEP 7 Micro/WIN SMART. Its sixteen transistor outputs support fast electronic switching, while the integrated PROFINET and RS485 interfaces provide machine and network communication.

A stable 24 V DC supply is required. Output grouping, load current, suppression, grounding, firmware and network settings must be verified before replacement or commissioning.

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OFFICIAL APPLICATIONS

- Indexing mechanisms using three high-speed pulse outputs
- Coordinated conveyor and material-handling modules
- Packaging machines with sensor-based sequences
- Cut-to-length machinery using high-speed counting
- Process skids using integrated PID control

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SYSTEM COMPATIBILITY

Siemens identifies this CPU as part of the SIMATIC S7-200 SMART family. It supports up to six expansion modules and one signal board, subject to CPU firmware, expansion limits and power demand.

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OFFICIAL SOURCES

[Siemens technical data for 6ES7288-1ST40-0AA1](#)

[SIMATIC S7-200 SMART System Manual, V2.8](#)

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LIFECYCLE & REPLACEMENT

Siemens identifies 6ES7288-1ST40-0AA1 as the CPU ST40 DC/DC/DC article for the S7-200 SMART family. An exact replacement must retain the complete article number and a supported firmware and engineering-tool combination.

Before replacement, archive the project and verify I/O allocation, output grouping, expansion power, signal-board selection, PROFINET and RS485 settings. Check the current Siemens product record for PLM status and any official successor notice.

AMIKON PRODUCT SUPPORT

Amikon Limited

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM