

SIMATIC EMBEDDED AUTOMATION

Product Data Sheet

6ES7677-1DD50-2AA0

SIMATIC embedded automation component

FUNCTION	FAMILY	ORIGIN	WEIGHT
SIMATIC embedded automation compor	SIMATIC Embedded Automation	Germany	Confirm before dispatch

Siemens Simatic S7 6ES7677-1DD50-2AA0 is a SIMATIC embedded automation component for the SIMATIC Embedded Automation. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7677-1DD50-2AA0
Product Class	Simatic Embedded Automation Component
Product Family	SIMATIC Embedded Automation
Supply Class	24 V DC industrial control
System Interface	Manufacturer system bus
Signal Type	Industrial digital or analog levels
Diagnostics	Module status indication
Configuration	Manufacturer engineering software
Isolation	Functional circuit isolation
Mounting	Control-cabinet module slot

Protection Class	IP20 installed
Operating Temperature	0 to +55 °C class
Duty Cycle	Continuous industrial operation

- Observe pallet transfer with Simatic Embedded: During operation of the turntables, lifts and shuttle cars, 6ES7677-1DD50-2AA0 supports the configured automation role as a SIMATIC embedded automation component. During blocked-zone recovery, the system uses this function to re-establish the transfer path after the obstruction clears, helping it resume flow without losing tracking data.
- Sequence machine-tool automation with Simatic Embedded: Inside the spindles, axes and tool changers, 6ES7677-1DD50-2AA0 provides its specified system function as a SIMATIC embedded automation component. During cycle start, the system uses this function to coordinate the equipment states required by the active cycle, helping it complete the machining step with traceable status.
- Regulate distillation control with Simatic Embedded: Within the columns, reboilers and reflux circuits, 6ES7677-1DD50-2AA0 serves its documented function as a SIMATIC embedded automation component. During feed-composition change, the system uses this function to coordinate temperature, pressure and inventory loops, helping it maintain separation performance.

Match 6ES7677-1DD50-2AA0 to the installed SIMATIC Embedded Automation, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Siemens official product documentation and manufacturer catalog](#)

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6ES7677-1DD50-2AA0>

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