

APTER POWER PRODUCT MANUAL

6ES7288-2DE16-0AA0

SIMATIC S7-200 SMART SM DE16 Digital Input Module

The Siemens 6ES7288-2DE16-0AA0 is a SIMATIC S7-200 SMART SM DE16 Digital Input Module that provides sixteen sink/source inputs arranged in four input groups.

In an S7-200 SMART automation station, it acquires sixteen discrete 24 V DC sensor and contact signals for the S7-200 SMART process image. It works with the verified CPU or expansion-bus configuration, terminal blocks, field power, sensors, and actuators defined for the exact article number. The module is used in assembly fixtures, conveyor zones, alarm contacts, and dense machine-state monitoring.

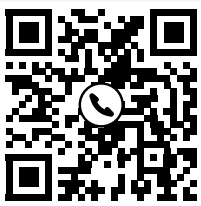
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Sixteen field states. One narrow module.
Structured SMART expansion.

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SCAN FOR PRODUCT & QUOTE
6ES7288-2DE16-0AA0

1. Product Overview and Identity

The Siemens 6ES7288-2DE16-0AA0 is a SIMATIC S7-200 SMART SM DE16 Digital Input Module that provides sixteen sink/source inputs arranged in four input groups.

In an S7-200 SMART automation station, it acquires sixteen discrete 24 V DC sensor and contact signals for the S7-200 SMART process image. It works with the verified CPU or expansion-bus configuration, terminal blocks, field power, sensors, and actuators defined for the exact article number. The module is used in assembly fixtures, conveyor zones, alarm contacts, and dense machine-state monitoring.

Model Configuration

Field	Verified information
Complete model	6ES7288-2DE16-0AA0
Manufacturer	Siemens
Product description	SIMATIC S7-200 SMART SM DE16 Digital Input Module

Key Features

- Exact Siemens MLFB 6ES7288-2DE16-0AA0
- SIMATIC S7-200 SMART SM DE16 Digital Input Module
- 16 digital inputs, 24 V DC, sink/source
- 24 V DC nominal; 20.4 to 28.8 V DC permissible
- 45 x 100 x 81 mm
- 0.176 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 SM DE16 Digital Input Module
Complete article number	6ES7288-2DE16-0AA0
System	SIMATIC S7-200 SMART
Primary function	sixteen sink/source inputs arranged in four input groups
Power supply	24 V DC nominal; 20.4 to 28.8 V DC permissible
Digital inputs	16; 24 V DC; sink/source
Input characteristic	IEC 61131 Type 1 sink/source
Input groups	4
Input delay	200 microseconds maximum for standard inputs
Power consumption	2.3 W
Mounting	Standard DIN rail
Degree of protection	IP20
Device dimensions	45 x 100 x 81 mm (W x H x D)
Approximate device weight	0.176 kg
Country of origin	Germany
Lifecycle	The exact article number is documented in Siemens official S7-200 SMART ordering information and technical documentation; confirm current regional availability at quotation.

Verification Note

Use the complete 6ES7288-2DE16-0AA0 identifier. The exact article number is documented in Siemens official S7-200 SMART ordering information and technical documentation; confirm current regional availability at quotation. Values not published in the cited Siemens sources are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- Acquires sixteen discrete 24 V DC sensor and contact signals for the S7-200 SMART process image.
- Maintains the documented SM DE16 function for the complete 6ES7288-2DE16-0AA0 article number.
- Provides a model-specific basis for wiring, configuration, commissioning, diagnostics, and replacement verification.

Application Areas

Application	System role
Sensor status acquisition	Reads 16 discrete 24 V DC sensor or contact signals
Interlock monitoring	Brings guards, pressure switches, limit switches, and permissive contacts into the controller
Machine-state collection	Adds input density for assembly fixtures, conveyor zones, alarm contacts, and dense machine-state monitoring
Panel modernization	Expands a verified S7-200 SMART station without changing the signal type

Compatible Components

- S7-200 SMART configuration that explicitly supports the complete 6ES7288-2DE16-0AA0 article number
- Siemens-approved DIN rail, removable terminal blocks, expansion-bus arrangement, and panel wiring for the exact module
- 24 V DC field devices and power supplies matched to every published channel, group, polarity, and current limit
- 16 sink/source 24 V DC sensors or dry contacts

Lifecycle Status

The exact article number is documented in Siemens official S7-200 SMART ordering information and technical documentation; confirm current regional availability at quotation.

4. Installation Precautions

- Identity: Match every character of 6ES7288-2DE16-0AA0 and the SM DE16 marking to the physical nameplate and project
- Power: Verify 24 V DC nominal; 20.4 to 28.8 V DC permissible; isolate all energy sources before wiring, insertion, or removal
- Signals: Observe every input/output voltage, current, common, group, polarity, isolation, and protective-device limit
- Panel: Use documented DIN-rail mounting, clearances, protective earth, cable segregation, ventilation, and IP20 enclosure protection
- Commissioning: Back up the project, verify addresses and terminals, test one circuit group at a time, and record the results

STOP - Verify before installation

Use the complete 6ES7288-2DE16-0AA0 identifier. The exact article number is documented in Siemens official S7-200 SMART ordering information and technical documentation; confirm current regional 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 for 6ES7288-2DE16-0AA0: <https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7288-2DE16-0AA0>; Siemens official S7-200 SMART ordering information: https://www.ad.siemens.com.cn/download/documentdetail_17711.html; Siemens official system manual with model-specific I/O tables: https://support.industry.siemens.com/cs/attachments/109963390/SIMATIC_ET_200_S_MART_IM60_System_Manual_en-US.pdf

Apter Power product page

<https://www.apterpower.com/Siemens/6es7288-2de16-0aa0>

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.