

APTER POWER PRODUCT MANUAL

6ES7414-3EM07-0AB0

SIMATIC S7-400 CPU 414-3 PN/DP

The Siemens 6ES7414-3EM07-0AB0 is a SIMATIC S7-400 CPU 414-3 PN/DP with 4 MB work memory, split equally between code and data, plus MPI/DP, Ethernet PROFINET, and an optional IF 964-DP interface position.

It executes the control program, manages S7-400 rack modules, and exchanges cyclic process data and diagnostics across configured PROFINET and PROFIBUS networks; the third PROFIBUS interface requires the specified plug-in IF 964-DP module.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE
6ES7414-3EM07-0AB0

1. Product Overview and Identity

The Siemens 6ES7414-3EM07-0AB0 is a SIMATIC S7-400 CPU 414-3 PN/DP with 4 MB work memory, split equally between code and data, plus MPI/DP, Ethernet PROFINET, and an optional IF 964-DP interface position.

It executes the control program, manages S7-400 rack modules, and exchanges cyclic process data and diagnostics across configured PROFINET and PROFIBUS networks; the third PROFIBUS interface requires the specified plug-in IF 964-DP module.

Model Configuration

Field	Verified information
Complete model	6ES7414-3EM07-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-400 CPU 414-3 PN/DP

Key Features

- Exact Siemens MLFB 6ES7414-3EM07-0AB0
- SIMATIC S7-400 CPU 414-3 PN/DP
- 4 MB: 2 MB code and 2 MB data
- MPI/PROFIBUS DP, 12 Mbit/s; Ethernet PROFINET; IF 964-DP plug-in position
- Model-specific lifecycle and installation guidance

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	CPU 414-3 PN/DP
Firmware generation	V7.0
Work memory	4 MB: 2 MB code and 2 MB data
First interface	MPI/PROFIBUS DP, 12 Mbit/s
Second interface	Ethernet PROFINET
Third interface	IF 964-DP plug-in position
Siemens net weight	1.130 kg
Siemens packaging dimensions	23.30 × 30.20 × 6.60 cm
Country of origin	Germany
Lifecycle	PM300 active product

Verification Note

Use the complete 6ES7414-3EM07-0AB0 identifier. Siemens lists 6ES7414-3EM07-0AB0 as a PM300 active product. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes the control program, manages S7-400 rack modules, and exchanges cyclic process data and diagnostics across configured PROFINET and PROFIBUS networks; the third PROFIBUS interface requires the specified plug-in IF 964-DP module.
- Maintains the documented SIMATIC S7-400 controller with PROFINET and PROFIBUS role for this complete Siemens article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Networked S7-400 control	Combines central logic with PROFINET and PROFIBUS communication
Large machine automation	Uses 4 MB work memory for complex sequence and data processing
Distributed I/O systems	Coordinates PN and DP field stations from one controller
Multi-interface production cells	Adds an optional second DP channel through IF 964-DP

Compatible Components

- SIMATIC S7-400 rack, power supply, and modules defined in the STEP 7 project
- PROFINET IO devices and switches approved in the engineered topology
- PROFIBUS DP stations with verified GSD files and bus parameters
- IF 964-DP plug-in module when the third DP interface is required

Lifecycle Status

Siemens lists 6ES7414-3EM07-0AB0 as a PM300 active product.

4. Installation Precautions

- Firmware/project: Match the V7.0 hardware catalog entry and approved STEP 7 project
- PROFINET: Verify device names, IP plan, topology, update times, and switch configuration
- PROFIBUS: Confirm station roles, addresses, cable, termination, and baud rate
- Optional interface: Install only the Siemens-specified IF 964-DP when the third interface is configured
- Commissioning: Validate each network and central rack diagnostics before production release

STOP - Verify before installation

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Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens Industry Mall product detail and Siemens technical data sheet for complete article number 6ES7414-3EM07-0AB0: <https://mall.industry.siemens.com/mall/en/sencomautomaticsltd/Catalog/Product?SiepCountryCode=OE&mlfb=6ES7414-3EM07-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7414-3em07-0ab0>

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.

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