

APTER POWER PRODUCT MANUAL

6ES7317-2EK14-0AB0

SIMATIC S7-300 CPU 317-2 PN/DP

The Siemens 6ES7317-2EK14-0AB0 is a SIMATIC S7-300 CPU 317-2 PN/DP with 1 MB work memory, a 12 Mbit/s MPI/DP interface, and an Ethernet PROFINET interface with an integrated two-port switch.

It executes larger and faster automation programs, manages central and distributed I/O, and exchanges cyclic process data and diagnostics over both PROFINET and PROFIBUS networks in coordinated machine and production-line systems.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

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SCAN FOR PRODUCT & QUOTE

6ES7317-2EK14-0AB0

1. Product Overview and Identity

The Siemens 6ES7317-2EK14-0AB0 is a SIMATIC S7-300 CPU 317-2 PN/DP with 1 MB work memory, a 12 Mbit/s MPI/DP interface, and an Ethernet PROFINET interface with an integrated two-port switch.

It executes larger and faster automation programs, manages central and distributed I/O, and exchanges cyclic process data and diagnostics over both PROFINET and PROFIBUS networks in coordinated machine and production-line systems.

Model Configuration

Field	Verified information
Complete model	6ES7317-2EK14-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-300 CPU 317-2 PN/DP

Key Features

- Exact Siemens MLFB 6ES7317-2EK14-0AB0
- SIMATIC S7-300 CPU 317-2 PN/DP
- 1 MB
- MPI/PROFIBUS DP, up to 12 Mbit/s; Ethernet PROFINET with integrated two-port switch
- 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 317-2 PN/DP
Firmware	V3.2
Work memory	1 MB
Supply	24 V DC; permitted range 20.4 to 28.8 V DC
First interface	MPI/PROFIBUS DP, up to 12 Mbit/s
Second interface	Ethernet PROFINET with integrated two-port switch
Typical power loss	4.65 W
Device dimensions	40 × 125 × 130 mm (W × H × D)
Approximate device weight	340 g
Siemens net weight	0.380 kg
Siemens packaging dimensions	12.80 × 15.20 × 5.20 cm
Required memory	SIMATIC Micro Memory Card
Country of origin	Germany
Lifecycle	PM410 product cancellation since 1 October 2025; Siemens lists it as a spare part

Verification Note

Use the complete 6ES7317-2EK14-0AB0 identifier. Siemens lists 6ES7317-2EK14-0AB0 in PM410 product cancellation since 1 October 2025 and identifies it as a spare part. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes larger and faster automation programs, manages central and distributed I/O, and exchanges cyclic process data and diagnostics over both PROFINET and PROFIBUS networks in coordinated machine and production-line systems.
- Maintains the documented SIMATIC S7-300 high-performance PLC with PROFINET and PROFIBUS role for this complete article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Complex machine control	Runs larger sequence, interlock, and data-handling programs
Production-line coordination	Exchanges real-time data across PROFINET and PROFIBUS segments
Distributed diagnostics	Collects device and network status for maintenance and HMI systems
Installed S7-300 performance upgrades	Supports exact CPU 317-2 PN/DP configurations during lifecycle planning

Compatible Components

- SIMATIC S7-300 rack, compatible power supply, and expansion modules
- SIMATIC Micro Memory Card required for the load program
- PROFINET IO devices and switches approved in the engineered topology
- PROFIBUS DP stations with matching GSD files and bus parameters

Lifecycle Status

Siemens lists 6ES7317-2EK14-0AB0 in PM410 product cancellation since 1 October 2025 and identifies it as a spare part.

4. Installation Precautions

- Project baseline: Match firmware V3.2, hardware configuration, and the current STEP 7 archive
- PROFINET: Verify device names, IP plan, topology, switch ports, update times, and diagnostics
- PROFIBUS: Check DP roles, addresses, termination, cable, and station configuration
- Memory: Preserve and verify the required Micro Memory Card before CPU replacement
- Commissioning: Test distributed I/O, communications, and time-critical functions 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 6ES7317-2EK14-0AB0: <https://mall.industry.siemens.com/mall/en/oeii/Catalog/Product/6ES73172EK140AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7317-2ek14-0ab0>

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.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.