

APTER POWER PRODUCT MANUAL

6ES7314-6CH04-0AB0

SIMATIC S7-300 CPU 314C-2 DP

The Siemens 6ES7314-6CH04-0AB0 is a SIMATIC S7-300 CPU 314C-2 DP compact programmable controller with integrated digital and analog I/O, high-speed counters, MPI, and a PROFIBUS DP interface.

It executes the control program, processes 24 digital inputs, 16 digital outputs, 4 analog inputs, 2 analog outputs, one Pt100 input, and four counters up to 60 kHz while acting through its integrated DP interface in distributed automation configurations.

Manufacturer	Siemens
Prepared by	Apter Power
Document ID	AP-SIE-02-6ES7314-6CH04-0AB0-PM-R1
Revision	R1
Issue date	2026-08-17

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Compact control with a documented PROFIBUS backbone.

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



SCAN FOR PRODUCT & QUOTE
6ES7314-6CH04-0AB0

1. Product Overview and Identity

The Siemens 6ES7314-6CH04-0AB0 is a SIMATIC S7-300 CPU 314C-2 DP compact programmable controller with integrated digital and analog I/O, high-speed counters, MPI, and a PROFIBUS DP interface.

It executes the control program, processes 24 digital inputs, 16 digital outputs, 4 analog inputs, 2 analog outputs, one Pt100 input, and four counters up to 60 kHz while acting through its integrated DP interface in distributed automation configurations.

Model Configuration

Field	Verified information
Complete model	6ES7314-6CH04-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-300 CPU 314C-2 DP

Key Features

- Exact Siemens MLFB 6ES7314-6CH04-0AB0
- SIMATIC S7-300 CPU 314C-2 DP
- 192 KB
- MPI and integrated PROFIBUS DP
- 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 314C-2 DP
Firmware	V3.3
Work memory	192 KB
Supply	24 V DC; permitted range 19.2 to 28.8 V DC
Integrated digital I/O	24 DI / 16 DO
Integrated analog I/O	4 AI / 2 AO / 1 Pt100
High-speed counters	4 counters, up to 60 kHz
Interfaces	MPI and integrated PROFIBUS DP
Device dimensions	120 × 125 × 130 mm (W × H × D)
Approximate device weight	680 g
Siemens net weight	0.726 kg
Siemens packaging dimensions	13.40 × 15.40 × 12.90 cm
Required accessories	Two 40-pole front connectors and 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 6ES7314-6CH04-0AB0 identifier. Siemens lists 6ES7314-6CH04-0AB0 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 the control program, processes 24 digital inputs, 16 digital outputs, 4 analog inputs, 2 analog outputs, one Pt100 input, and four counters up to 60 kHz while acting through its integrated DP interface in distributed automation configurations.
- Maintains the documented SIMATIC S7-300 compact PLC with PROFIBUS DP role for this complete article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Compact distributed control	Runs machine logic while exchanging cyclic data over PROFIBUS DP
Conveyor and packaging lines	Processes onboard sensors and actuators plus remote DP stations
Process skids	Handles analog and Pt100 values without separate local I/O modules
Counter-based machines	Uses four integrated counters for documented high-speed tasks

Compatible Components

- SIMATIC S7-300 rack and compatible 24 V DC power supply
- Two 40-pole front connectors for integrated I/O
- SIMATIC Micro Memory Card required for operation
- PROFIBUS DP devices whose GSD, address, cycle, and project configuration are verified

Lifecycle Status

Siemens lists 6ES7314-6CH04-0AB0 in PM410 product cancellation since 1 October 2025 and identifies it as a spare part.

4. Installation Precautions

- Identity: Verify the full 6ES7314-6CH04-0AB0 MLFB, hardware status 01, and firmware V3.3
- PROFIBUS: Match DP address, baud rate, termination, cable, and GSD/project configuration
- Integrated I/O: Confirm both 40-pole connector assignments before field wiring
- Memory: Use the required SIMATIC Micro Memory Card and preserve the validated STEP 7 project
- Commissioning: Check analog scaling, Pt100 wiring, counter parameters, and DP diagnostics

STOP - Verify before installation

Use the complete 6ES7314-6CH04-0AB0 identifier. Siemens lists 6ES7314-6CH04-0AB0 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.

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 6ES7314-6CH04-0AB0: <https://mall.industry.siemens.com/mall/en/ww/Catalog/Product/?mlfb=6ES7314-6CH04-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7314-6ch04-0ab0>

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.