

APTER POWER PRODUCT MANUAL

6ES7314-6BH04-0AB0

SIMATIC S7-300 CPU 314C-2 PtP

The Siemens 6ES7314-6BH04-0AB0 is a SIMATIC S7-300 CPU 314C-2 PtP compact programmable controller with integrated digital and analog I/O, high-speed counters, MPI, and an RS485 point-to-point interface.

It executes the machine-control program, reads 24 digital and 4 analog input channels plus one Pt100 input, drives 16 digital and 2 analog outputs, processes four counters up to 60 kHz, and exchanges serial data with compatible PtP devices in compact automation systems.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

One compact CPU, verified from I/O edge to serial link.

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SCAN FOR PRODUCT & QUOTE
6ES7314-6BH04-0AB0

1. Product Overview and Identity

The Siemens 6ES7314-6BH04-0AB0 is a SIMATIC S7-300 CPU 314C-2 PtP compact programmable controller with integrated digital and analog I/O, high-speed counters, MPI, and an RS485 point-to-point interface.

It executes the machine-control program, reads 24 digital and 4 analog input channels plus one Pt100 input, drives 16 digital and 2 analog outputs, processes four counters up to 60 kHz, and exchanges serial data with compatible PtP devices in compact automation systems.

Model Configuration

Field	Verified information
Complete model	6ES7314-6BH04-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-300 CPU 314C-2 PtP

Key Features

- Exact Siemens MLFB 6ES7314-6BH04-0AB0
- SIMATIC S7-300 CPU 314C-2 PtP
- 192 KB
- MPI and integrated RS485 point-to-point interface
- 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 PtP
Work memory	192 KB
Supply	24 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 RS485 point-to-point interface
Required accessories	Two 40-pole front connectors and SIMATIC Micro Memory Card
Siemens net weight	0.730 kg
Siemens packaging dimensions	13.10 × 15.40 × 13.10 cm
Country of origin	Germany
Lifecycle	PM410 product cancellation since 1 October 2025; Siemens lists it as a spare part

Verification Note

Use the complete 6ES7314-6BH04-0AB0 identifier. Siemens lists 6ES7314-6BH04-0AB0 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 machine-control program, reads 24 digital and 4 analog input channels plus one Pt100 input, drives 16 digital and 2 analog outputs, processes four counters up to 60 kHz, and exchanges serial data with compatible PtP devices in compact automation systems.
- Maintains the documented SIMATIC S7-300 compact PLC role for this complete article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Compact machine control	Combines program execution, onboard I/O, analog processing, and counters in one CPU
Serial equipment integration	Uses the RS485 PtP interface for documented protocol connections
Packaging and handling systems	Coordinates sensors, actuators, counters, and analog process values
Temperature and process skids	Acquires one Pt100 input together with the integrated analog channels

Compatible Components

- SIMATIC S7-300 rack and compatible 24 V DC power supply
- Two 40-pole front connectors for the integrated I/O
- SIMATIC Micro Memory Card required for operation
- RS485 PtP devices only after protocol, wiring, and parameter verification

Lifecycle Status

Siemens lists 6ES7314-6BH04-0AB0 in PM410 product cancellation since 1 October 2025 and identifies it as a spare part.

4. Installation Precautions

- Identity: Match the full 6ES7314-6BH04-0AB0 code, hardware status, and firmware on the nameplate
- Connectors: Confirm both 40-pole front connectors and the exact I/O wiring before energizing
- Serial interface: Verify RS485 protocol, pinout, termination, and communication parameters
- Memory: Install the required SIMATIC Micro Memory Card and validate the STEP 7 project backup
- Commissioning: Test integrated I/O, Pt100 scaling, counters, and PtP communication before service

STOP - Verify before installation

Use the complete 6ES7314-6BH04-0AB0 identifier. Siemens lists 6ES7314-6BH04-0AB0 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 6ES7314-6BH04-0AB0: <https://mall.industry.siemens.com/mall/en/inosatavtomatica/Catalog/Product?SiepCountryCode=OE&mlfb=6ES7314-6BH04-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7314-6bh04-0ab0>

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.