

APTER POWER PRODUCT MANUAL

6ES7410-5HX08-0AB0

SIMATIC CPU 410-5H Process Automation Controller

The Siemens 6ES7410-5HX08-0AB0 is a SIMATIC CPU 410-5H Process Automation central processing unit for S7-400 and S7-400H/F/FH systems, supplied without a System Expansion Card.

It executes process-control and high-availability automation logic and communicates through two PROFINET interfaces, one PROFIBUS DP interface, and two synchronization-module interfaces. Its usable process-object capacity depends on the separately selected System Expansion Card and licensed PCS 7 configuration.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Process capacity begins with the right CPU and expansion evidence.

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SCAN FOR PRODUCT & QUOTE
6ES7410-5HX08-0AB0

1. Product Overview and Identity

The Siemens 6ES7410-5HX08-0AB0 is a SIMATIC CPU 410-5H Process Automation central processing unit for S7-400 and S7-400H/F/FH systems, supplied without a System Expansion Card.

It executes process-control and high-availability automation logic and communicates through two PROFINET interfaces, one PROFIBUS DP interface, and two synchronization-module interfaces. Its usable process-object capacity depends on the separately selected System Expansion Card and licensed PCS 7 configuration.

Model Configuration

Field	Verified information
Complete model	6ES7410-5HX08-0AB0
Manufacturer	Siemens
Product description	SIMATIC CPU 410-5H Process Automation Controller

Key Features

- Exact Siemens MLFB 6ES7410-5HX08-0AB0
- SIMATIC CPU 410-5H Process Automation Controller
- Exact Siemens article configuration
- 2; 1; 2
- 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 410-5H Process Automation
Supported systems	S7-400 and S7-400H/F/FH
PROFINET interfaces	2
PROFIBUS DP interfaces	1
Synchronization interfaces	2
System Expansion Card	Not included
Device dimensions	50 × 290 × 219 mm
Approximate device weight	1.400 kg
Siemens net weight	1.465 kg
Siemens packaging dimensions	219 × 290 × 50 mm
Country of origin	Germany
Lifecycle	PM300 active product; Siemens identifies this article for spare-part use

Verification Note

Use the complete 6ES7410-5HX08-0AB0 identifier. Siemens lists 6ES7410-5HX08-0AB0 as a PM300 active product and describes it for spare-part use. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes process-control and high-availability automation logic and communicates through two PROFINET interfaces, one PROFIBUS DP interface, and two synchronization-module interfaces. Its usable process-object capacity depends on the separately selected System Expansion Card and licensed PCS 7 configuration.
- Maintains the documented SIMATIC PCS 7 S7-400H/F/FH process automation role for this complete Siemens article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
PCS 7 process automation	Executes continuous and sequence control in engineered process plants
High-availability control	Uses paired CPU and synchronization interfaces in S7-400H architectures
Fail-safe process systems	Participates only in an approved S7-400F/FH safety configuration
Plant lifecycle support	Serves exact installed CPU 410-5H configurations with verified expansion licensing

Compatible Components

- System Expansion Card selected for the required process-object capacity
- SIMATIC PCS 7 engineering version approved for the CPU hardware and firmware
- S7-400H synchronization modules and cables defined in the redundant topology
- PROFINET and PROFIBUS devices included in the validated PCS 7 project

Lifecycle Status

Siemens lists 6ES7410-5HX08-0AB0 as a PM300 active product and describes it for spare-part use.

4. Installation Precautions

- Expansion license: Confirm the required System Expansion Card; it is not included with this article
- PCS 7 compatibility: Match CPU hardware, firmware, system library, and engineering version
- Redundancy: Verify synchronization modules, cables, partner CPU, and redundancy diagnostics
- Networks: Preserve PROFINET names, IP settings, PROFIBUS addresses, timing, and topology
- Change control: Use the site process-safety and PCS 7 validation procedure before replacement

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 6ES7410-5HX08-0AB0: <https://mall.industry.siemens.com/mall/en/AE/Catalog/Product/6ES7410-5HX08-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7410-5hx08-0ab0>

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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