

APTER POWER PRODUCT MANUAL

6ES7414-4HM14-0AB0

SIMATIC S7-400H CPU 414-4H

The Siemens 6ES7414-4HM14-0AB0 is a SIMATIC S7-400H CPU 414-4H central processing unit with 2.8 MB work memory, split into 1.4 MB program and 1.4 MB data, plus one MPI/DP interface, one PROFIBUS DP interface, and two synchronization-module interfaces.

Installed as a matched CPU pair, it executes high-availability or approved fail-safe process logic while the synchronization interfaces coordinate the active and standby controllers. Exact hardware, firmware, project, and synchronization compatibility are essential because Siemens has cancelled the product.

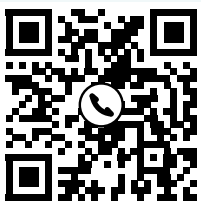
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

A redundant legacy CPU needs a synchronized migration record.

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SCAN FOR PRODUCT & QUOTE
6ES7414-4HM14-0AB0

1. Product Overview and Identity

The Siemens 6ES7414-4HM14-0AB0 is a SIMATIC S7-400H CPU 414-4H central processing unit with 2.8 MB work memory, split into 1.4 MB program and 1.4 MB data, plus one MPI/DP interface, one PROFIBUS DP interface, and two synchronization-module interfaces.

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Model Configuration

Field	Verified information
Complete model	6ES7414-4HM14-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-400H CPU 414-4H

Key Features

- Exact Siemens MLFB 6ES7414-4HM14-0AB0
- SIMATIC S7-400H CPU 414-4H
- 2.8 MB: 1.4 MB program and 1.4 MB data
- 1 × MPI/DP and 1 × PROFIBUS DP; 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 414-4H
Firmware	V4.5
Work memory	2.8 MB: 1.4 MB program and 1.4 MB data
Communication interfaces	1 × MPI/DP and 1 × PROFIBUS DP
Synchronization interfaces	2
Device dimensions	50 × 290 × 219 mm
Approximate device weight	0.995 kg
Siemens net weight	1.162 kg
Siemens packaging dimensions	23.30 × 30.00 × 6.30 cm
Country of origin	Germany
Lifecycle	Product cancellation since 1 February 2017; spare-part status

Verification Note

Use the complete 6ES7414-4HM14-0AB0 identifier. Siemens records product cancellation for 6ES7414-4HM14-0AB0 from 1 February 2017 and identifies it as a spare-part product. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- Installed as a matched CPU pair, it executes high-availability or approved fail-safe process logic while the synchronization interfaces coordinate the active and standby controllers. Exact hardware, firmware, project, and synchronization compatibility are essential because Siemens has cancelled the product.
- Maintains the documented SIMATIC S7-400H and S7-400F/FH high-availability controller role for this complete Siemens article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
High-availability process control	Runs paired controller logic with synchronized active and standby CPUs
S7-400F/FH systems	Supports approved fail-safe high-availability architectures
Continuous plants	Maintains exact installed CPU 414-4H configurations during lifecycle support
Controlled migration	Provides the legacy baseline for successor and system-upgrade engineering

Compatible Components

- Matching CPU 414-4H partner with verified hardware and firmware
- S7-400H synchronization modules and cables approved for the configured distance
- S7-400H rack, power supply, communication, and I/O modules in the validated project
- S7-400F/FH safety components only within the approved safety lifecycle

Lifecycle Status

Siemens records product cancellation for 6ES7414-4HM14-0AB0 from 1 February 2017 and identifies it as a spare-part product.

4. Installation Precautions

- Partner match: Verify both CPUs have compatible MLFB, hardware status, firmware, and project
- Synchronization: Inspect the exact sync modules, fiber cables, distances, and diagnostic status
- Project control: Preserve STEP 7, H-system, safety, and communication configuration backups
- Lifecycle: Treat any newer CPU as a migration requiring Siemens compatibility guidance
- Commissioning: Test redundancy switchover, diagnostics, communications, I/O, and safety acceptance

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 product data sheet for complete article number 6ES7414-4HM14-0AB0: <https://mall.industry.siemens.com/mall/en/en/Catalog/teddatasheet/?caller=Mall&format=PDF&language=en&mlfbs=6ES7414-4HM14-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7414-4hm14-0ab0>

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.