

APTER POWER PRODUCT MANUAL

6ES7400-0HR51-4AB0

SIMATIC S7-400H CPU 412-5H System Bundle

The Siemens 6ES7400-0HR51-4AB0 is a SIMATIC S7-400H CPU 412-5H system bundle supplied with an UR2-H rack, two PS 405 10 A power supplies, two CPU 412-5H modules, four synchronization modules for distances up to 10 m, and two 1 m synchronization cables.

It provides the paired controller, rack, power-supply, and synchronization hardware used to build a high-availability S7-400H station. The two CPUs execute the engineered control program while the synchronization components maintain the redundant controller relationship; separately ordered memory cards and backup batteries are required.

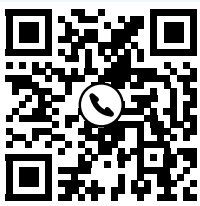
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Redundancy starts with a complete, matched hardware set.

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



SCAN FOR PRODUCT & QUOTE
6ES7400-0HR51-4AB0

1. Product Overview and Identity

The Siemens 6ES7400-0HR51-4AB0 is a SIMATIC S7-400H CPU 412-5H system bundle supplied with an UR2-H rack, two PS 405 10 A power supplies, two CPU 412-5H modules, four synchronization modules for distances up to 10 m, and two 1 m synchronization cables.

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Model Configuration

Field	Verified information
Complete model	6ES7400-0HR51-4AB0
Manufacturer	Siemens
Product description	SIMATIC S7-400H CPU 412-5H System Bundle

Key Features

- Exact Siemens MLFB 6ES7400-0HR51-4AB0
- SIMATIC S7-400H CPU 412-5H System Bundle
- 2 × CPU 412-5H
- SIMATIC S7-400H high-availability automation system
- 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 412-5H system bundle
Rack included	1 × UR2-H
CPUs included	2 × CPU 412-5H
Power supplies included	2 × PS 405, 10 A, 24/48/60 V DC input
Synchronization modules	4 × modules for distances up to 10 m
Synchronization cables	2 × 1 m
Items ordered separately	2 memory cards and 4 backup batteries
Siemens net weight	11.000 kg
Siemens packaging dimensions	30.40 × 59.10 × 28.00 cm
Country of origin	Germany
Lifecycle	PM300 active product

Verification Note

Use the complete 6ES7400-0HR51-4AB0 identifier. Siemens lists 6ES7400-0HR51-4AB0 as a PM300 active product. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It provides the paired controller, rack, power-supply, and synchronization hardware used to build a high-availability S7-400H station. The two CPUs execute the engineered control program while the synchronization components maintain the redundant controller relationship; separately ordered memory cards and backup batteries are required.
- Maintains the documented SIMATIC S7-400H high-availability automation system 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	Provides paired CPUs and synchronization hardware for controller redundancy
Continuous production	Supports engineered switchover strategies where controller downtime must be reduced
Utility and infrastructure automation	Hosts redundant control logic for continuously monitored plant services
Redundant S7-400 modernization	Supplies a coordinated 412-5H hardware set for an approved system design

Compatible Components

- Two Siemens memory cards selected for the CPU 412-5H project
- Four backup batteries specified for the included power supplies and CPUs
- S7-400H synchronization topology using the included modules and 1 m cables
- S7-400 I/O and communication modules defined in the validated hardware configuration

Lifecycle Status

Siemens lists 6ES7400-0HR51-4AB0 as a PM300 active product.

4. Installation Precautions

- Bundle identity: Verify every included CPU, power supply, synchronization module, cable, and rack against the Siemens packing list
- Missing items: Order and validate the two required memory cards and four backup batteries separately
- Redundancy: Configure both CPUs with matching hardware, firmware, project, and synchronization parameters
- Power: Confirm the PS 405 input voltage, protective grounding, load budget, and redundant supply arrangement
- Commissioning: Test synchronization, redundancy events, diagnostics, and field I/O 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 for complete article number 6ES7400-0HR51-4AB0: <https://mall.industry.siemens.com/mall/en/powertecownsy/Catalog/Product?SiepCountryCode=OE&mlfb=6ES7400-0HR51-4AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7400-0hr51-4ab0>

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.