

APTER POWER PRODUCT MANUAL

6ES7414-2XG02-0AB0

SIMATIC S7-400 CPU 414-2 DP

The Siemens 6ES7414-2XG02-0AB0 is a legacy SIMATIC S7-400 CPU 414-2 DP central processing unit with 128 KB work memory, an MPI/DP interface, and an integrated second PROFIBUS DP interface.

It executes the S7 control program, manages central rack modules, and exchanges process data with configured PROFIBUS DP devices. Because Siemens has ended the product lifecycle, replacement planning must preserve the original project, firmware, bus configuration, and module compatibility.

Manufacturer	Siemens
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Legacy continuity depends on a complete project baseline.

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SCAN FOR PRODUCT & QUOTE
6ES7414-2XG02-0AB0

1. Product Overview and Identity

The Siemens 6ES7414-2XG02-0AB0 is a legacy SIMATIC S7-400 CPU 414-2 DP central processing unit with 128 KB work memory, an MPI/DP interface, and an integrated second PROFIBUS DP interface.

It executes the S7 control program, manages central rack modules, and exchanges process data with configured PROFIBUS DP devices. Because Siemens has ended the product lifecycle, replacement planning must preserve the original project, firmware, bus configuration, and module compatibility.

Model Configuration

Field	Verified information
Complete model	6ES7414-2XG02-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-400 CPU 414-2 DP

Key Features

- Exact Siemens MLFB 6ES7414-2XG02-0AB0
- SIMATIC S7-400 CPU 414-2 DP
- 128 KB
- MPI/PROFIBUS DP; 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 414-2 DP
Work memory	128 KB
First interface	MPI/PROFIBUS DP
Second interface	Integrated PROFIBUS DP
Successor listed by Siemens	6ES7414-2XL07-0AB0
Siemens net weight	1.467 kg
Siemens packaging dimensions	23.10 × 30.10 × 6.20 cm
Country of origin	Germany
Lifecycle	End of product lifecycle since 1 March 2012

Verification Note

Use the complete 6ES7414-2XG02-0AB0 identifier. Siemens records the end of product lifecycle for 6ES7414-2XG02-0AB0 from 1 March 2012 and lists 6ES7414-2XL07-0AB0 as successor. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes the S7 control program, manages central rack modules, and exchanges process data with configured PROFIBUS DP devices. Because Siemens has ended the product lifecycle, replacement planning must preserve the original project, firmware, bus configuration, and module compatibility.
- Maintains the documented legacy SIMATIC S7-400 controller with dual PROFIBUS capability role for this complete Siemens article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Legacy S7-400 machine control	Executes installed control logic and central I/O processing
Dual-bus automation	Coordinates MPI/DP communication and a separate PROFIBUS DP segment
Brownfield production systems	Maintains exact legacy hardware while migration is engineered
Successor planning	Provides the baseline for evaluating Siemens 6ES7414-2XL07-0AB0

Compatible Components

- Original S7-400 rack, power supply, and modules recorded in the STEP 7 project
- PROFIBUS DP devices and CPs documented as compatible with this CPU generation
- Original memory card and backed-up program for the installed station
- Siemens successor 6ES7414-2XL07-0AB0 only after complete migration verification

Lifecycle Status

Siemens records the end of product lifecycle for 6ES7414-2XG02-0AB0 from 1 March 2012 and lists 6ES7414-2XL07-0AB0 as successor.

4. Installation Precautions

- Legacy identity: Record the CPU hardware version, firmware, memory card, and diagnostic buffer before removal
- Project backup: Preserve and test the original STEP 7 project and all communication parameters
- DP networks: Document addresses, baud rates, termination, shielding, and device versions
- Successor review: Do not treat 6ES7414-2XL07-0AB0 as plug-and-play without Siemens migration checks
- Commissioning: Retest I/O, communications, timing, interlocks, and machine safety after any CPU change

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 S7-400 CPU/CP compatibility documentation and archived Siemens product data for complete article number 6ES7414-2XG02-0AB0:

https://support.industry.siemens.com/cs/attachments/26561772/Compatibility_List_S7400_IE_CPs_V17_e.pdf

Apter Power product page

<https://www.apterpower.com/Siemens/6es7414-2xg02-0ab0>

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.