

6ES7416-2XK02-0AB0

S7-400 CPU

Siemens 6ES7416-2XK02-0AB0 is a SIMATIC S7-400 CPU 416-2 DP with firmware V3.1. The official CPU data identifies 1.6 MB of work memory divided equally between code and data and integrated PROFIBUS-DP master/slave capability.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
Complete model	6ES7416-2XK02-0AB0
Product role	S7-400 CPU
System family	SIMATIC S7-400

MANUFACTURER SOURCE RECORDS

- 1. Siemens SIMATIC S7-400 CPU Data, CPU 416-2 order number 6ES7416-2XK02-0AB0
- 2. Siemens S7 Routing CPU Overview and compatibility record for 6ES7416-2XK02-0AB0

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Product Overview

System function

Siemens 6ES7416-2XK02-0AB0 is a SIMATIC S7-400 CPU 416-2 DP with firmware V3.1. The official CPU data identifies 1.6 MB of work memory divided equally between code and data and integrated PROFIBUS-DP master/slave capability.

CPU 416-2 DP

Provides the documented S7-400 central-processing function with integrated DP communication.

Work memory

Uses 1.6 MB divided into 0.8 MB code and 0.8 MB data memory.

DP integration

Supports documented PROFIBUS-DP master or slave operation on the integrated interface.

S7 routing

Supports routing functions identified in the Siemens CPU compatibility overview.

Technical note

Retain the complete 6ES7416-2XK02-0AB0 order number and installed firmware record. Back up the STEP 7 project, memory-card contents, interface configuration and routing data before replacement or recommissioning.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Order number	6ES7416-2XK02-0AB0	Markers	16 KB
CPU type	SIMATIC S7-400 CPU 416-2 DP	Clock markers	8
Firmware version	V3.1	Data blocks	Up to 4095
Engineering software	STEP 7 V5.2 or later	Maximum DB size	64 KB
Work memory	1.6 MB total	Local data	Up to 32 KB; 16 KB default
Code work memory	0.8 MB	Integrated interface	MPI / PROFIBUS-DP
Data work memory	0.8 MB	DP operation	Master or slave
Integrated load RAM	256 KB	Routing	S7 routing supported
Memory card capacity	Up to 64 MB Flash or RAM		

Engineering boundary

Retain the complete 6ES7416-2XK02-0AB0 order number and installed firmware record. Back up the STEP 7 project, memory-card contents, interface configuration and routing data before replacement or recommissioning.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
S7-400 central control	Executes the controlled STEP 7 application in a SIMATIC S7-400 station.
PROFIBUS-DP master	Coordinates approved distributed I/O and DP devices through the integrated interface.
PROFIBUS-DP slave	Operates in the documented DP-slave role when configured by the project.
S7 routing	Routes approved engineering communications through the configured S7 system.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is Siemens 6ES7416-2XK02-0AB0?	6ES7416-2XK02-0AB0 is a SIMATIC S7-400 CPU 416-2 DP.
Which firmware is documented for Siemens 6ES7416-2XK02-0AB0?	The official CPU data identifies firmware V3.1.

Related Products

MODEL	APTER POWER PAGE
Siemens 6ES7400-2JA10-0AA1	View Siemens 6ES7400-2JA10-0AA1
Siemens 6ES7400-2JA00-0AA0	View Siemens 6ES7400-2JA00-0AA0
Siemens 6ES7400-0HR51-4AB0	View Siemens 6ES7400-0HR51-4AB0
Siemens 6ES7407-0DA01-0AA0	View Siemens 6ES7407-0DA01-0AA0

FAQ, Related Products and Sources

QUESTION	ANSWER
How much work memory does Siemens 6ES7416-2XK02-0AB0 provide?	It provides 1.6 MB total, divided into 0.8 MB code and 0.8 MB data memory.
Which STEP 7 version is listed for Siemens 6ES7416-2XK02-0AB0?	The official CPU data lists STEP 7 V5.2 or later.
Which DP roles can Siemens 6ES7416-2XK02-0AB0 use?	The integrated PROFIBUS-DP interface supports documented master or slave operation.
Does Siemens 6ES7416-2XK02-0AB0 support S7 routing?	Yes. Siemens lists S7 routing support for this CPU order number.
Which records should be backed up before replacing 6ES7416-2XK02-0AB0?	Back up the STEP 7 project, hardware configuration, memory-card contents, interface addresses and routing data.
What confirms Siemens 6ES7416-2XK02-0AB0 commissioning?	The restored project, CPU diagnostics, DP communications, I/O and controlled process functions must match the approved acceptance record.

MODEL	APTER POWER PAGE
Siemens 6ES7450-1AP00-0AE0	View Siemens 6ES 7450-1AP00-0AE0
Siemens 6ES7400-1JA11-0AA1	View Siemens 6ES 7400-1JA11-0AA1
Siemens 6ES7421-7BH01-0AB0	View Siemens 6ES 7421-7BH01-0AB0
Siemens 6ES7414-4HJ04-0AB0	View Siemens 6ES 7414-4HJ04-0AB0

MANUFACTURER SOURCE RECORDS

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