

SIMATIC S7-400 AUTOMATION SYSTEMS

Product Data Sheet

6ES7416-2XK02-0AB0

CPU 416-2 central processing unit

FUNCTION	FAMILY	ORIGIN	WEIGHT
CPU 416-2 central processing unit	SIMATIC S7-400 automation systems	Germany	Confirm before dispatch

S7-400 6ES7416-2XK02-0AB0 is a CPU 416-2 central processing unit for the SIMATIC S7-400 automation systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7416-2XK02-0AB0
Product Class	Cpu 416-2 Central Processing Unit
Product Family	SIMATIC S7-400 automation systems
Control Supply	24 V DC or system backplane
Backplane Interface	SIMATIC system bus
Programming	STEP 7 / TIA Portal
Process Image	Cyclic I/O exchange
Diagnostics	Module and channel status
Isolation	Galvanically isolated field circuits
Mounting	SIMATIC rail or rack

ADDITIONAL PRODUCT DATA

Protection Class	IP20 installed
Operating Temperature	0 to +60 °C class
Status Indication	Front-panel LEDs

OFFICIAL APPLICATIONS

- Govern automated storage with Cpu 416 process control: For the coordinated operation of the stacker cranes and storage positions, 6ES7416-2XK02-0AB0 provides its specified system function as a CPU 416-2 central processing unit. During buffer release, the system uses this function to release material according to downstream availability, helping it prevent overfilling the next buffer.
- Support clean-in-place transfer with Cpu 416 process control: Within the CIP supply and return headers, 6ES7416-2XK02-0AB0 performs its assigned control role as a CPU 416-2 central processing unit. During sanitation transition, the system uses this function to coordinate valve paths and pump availability, helping it complete sanitation without cross-routing product.
- Support machine-tool automation with Cpu 416 process control: Inside the spindles, axes and tool changers, 6ES7416-2XK02-0AB0 supports the configured automation role as a CPU 416-2 central processing unit. During cycle start, the system uses this function to coordinate the equipment states required by the active cycle, helping it complete the machining step with traceable status.

SYSTEM COMPATIBILITY

Match 6ES7416-2XK02-0AB0 to the installed SIMATIC S7-400 automation systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens official product documentation and manufacturer catalog](#)

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6ES7416-2XK02-0AB0>

AMIKON PRODUCT SUPPORT

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