

SIMATIC S7-1500 AUTOMATION SYSTEMS

Product Data Sheet

6ES7512-1CK00-0AB0

CPU 1512C compact controller

FUNCTION CPU 1512C compact controller	FAMILY SIMATIC S7-1500 automation systems	ORIGIN Germany	WEIGHT Confirm before dispatch
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Siemens Simatic S7 6ES7512-1CK00-0AB0 is a CPU 1512C compact controller for the SIMATIC S7-1500 automation systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7512-1CK00-0AB0
Product Class	Cpu 1512C Compact Controller
Product Family	SIMATIC S7-1500 automation systems
Controller Platform	SIMATIC S7-1500
Programming Environment	STEP 7 / TIA Portal
Program Processing	Cyclic and interrupt OBs
Communication	MPI / PROFIBUS / PROFINET by article
Memory Type	Integrated work memory
Digital Processing	Boolean and integer instructions
Analog Processing	Floating-point instructions

Diagnostic Buffer	Retentive event log
Real-Time Clock	Hardware clock integrated
Mounting	SIMATIC mounting rail / rack
Supply Class	24 V DC or rack backplane

- Support generator excitation with Cpu 1512C process control: During operation of the field circuits and voltage regulation, 6ES7512-1CK00-0AB0 operates in its approved product-family role as a CPU 1512C compact controller. During load change, the system uses this function to adjust the assigned regulation path from operating feedback, helping it hold the electrical variable at its commanded target.
- Support distillation control with Cpu 1512C process control: In the automation chain for the columns, reboilers and reflux circuits, 6ES7512-1CK00-0AB0 operates in its approved product-family role as a CPU 1512C compact controller. During feed-composition change, the system uses this function to coordinate temperature, pressure and inventory loops, helping it maintain separation performance.
- Control body transfer with Cpu 1512C process control: In the automation chain for the skid conveyors and lift stations, 6ES7512-1CK00-0AB0 operates in its approved product-family role as a CPU 1512C compact controller. During model change, the system uses this function to coordinate motion requests and station interlocks, helping it keep the assembly takt moving.

Match 6ES7512-1CK00-0AB0 to the installed SIMATIC S7-1500 automation systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

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

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6ES7512-1CK00-0AB0>

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