

APTER POWER PRODUCT MANUAL

6ES7512-1CK01-0AB0

SIMATIC S7-1500 CPU 1512C-1 PN

The Siemens 6ES7512-1CK01-0AB0 is a SIMATIC S7-1500 compact CPU 1512C-1 PN with 250 KB program memory, 1 MB data memory, integrated digital and analog I/O, high-speed counters and outputs, and a PROFINET IRT two-port interface.

It executes the automation program, acquires 32 digital and five analog inputs, controls 32 digital and two analog outputs, processes six high-speed counters and four PTO/PWM/frequency outputs, and exchanges cyclic data and diagnostics over PROFINET. It requires a SIMATIC Memory Card and is used with a TIA Portal project, 24 V supply, front connector, and compatible field devices in compact machines and production cells.

Manufacturer	Siemens
Prepared by	Apter Power
Document ID	AP-SIE-09-6ES7512-1CK01-0AB0-PM-R1
Revision	R1
Issue date	2026-08-17

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Compact S7-1500 control with integrated mixed I/O and motion signals.

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



SCAN FOR PRODUCT & QUOTE
6ES7512-1CK01-0AB0

1. Product Overview and Identity

The Siemens 6ES7512-1CK01-0AB0 is a SIMATIC S7-1500 compact CPU 1512C-1 PN with 250 KB program memory, 1 MB data memory, integrated digital and analog I/O, high-speed counters and outputs, and a PROFINET IRT two-port interface.

It executes the automation program, acquires 32 digital and five analog inputs, controls 32 digital and two analog outputs, processes six high-speed counters and four PTO/PWM/frequency outputs, and exchanges cyclic data and diagnostics over PROFINET. It requires a SIMATIC Memory Card and is used with a TIA Portal project, 24 V supply, front connector, and compatible field devices in compact machines and production cells.

Model Configuration

Field	Verified information
Complete model	6ES7512-1CK01-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-1500 CPU 1512C-1 PN

Key Features

- Exact Siemens MLFB 6ES7512-1CK01-0AB0
- SIMATIC S7-1500 CPU 1512C-1 PN
- 250 KB
- 1 MB
- Model-specific lifecycle, weight, dimensions, 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 1512C-1 PN compact controller
Program work memory	250 KB
Data work memory	1 MB
Integrated digital I/O	32 inputs and 32 outputs
Integrated analog I/O	5 inputs and 2 outputs
High-speed counters	6
High-speed PTO/PWM/frequency outputs	4
PROFINET	IRT interface with 2-port switch
Bit performance	48 ns
Included accessory	Push-in front connector
Required accessory	SIMATIC Memory Card
Siemens net weight	1.551 kg
Siemens packaging dimensions	18.9 x 23.8 x 17.0 cm
Country of origin	China
Lifecycle	PM400; product phase-out announced since 1 October 2025

Verification Note

Use the complete 6ES7512-1CK01-0AB0 identifier. Siemens lists 6ES7512-1CK01-0AB0 in PM400 product phase-out status, effective 1 October 2025. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes the automation program, acquires 32 digital and five analog inputs, controls 32 digital and two analog outputs, processes six high-speed counters and four PTO/PWM/frequency outputs, and exchanges cyclic data and diagnostics over PROFINET. It requires a SIMATIC Memory Card and is used with a TIA Portal project, 24 V supply, front connector, and compatible field devices in compact machines and production cells.
- Maintains the documented SIMATIC S7-1500 compact controller role for this complete Siemens article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Compact machine control	Combines CPU, I/O, counters, and motion outputs in one controller
PROFINET production cells	Coordinates distributed devices through the integrated two-port interface
Counting and positioning	Processes six high-speed counters and four fast pulse outputs
Mixed-signal automation	Handles local digital and analog field signals without separate basic I/O modules

Compatible Components

- SIMATIC Memory Card sized and approved for the TIA Portal project
- 24 V DC power supply and front connector wiring specified for CPU 1512C-1 PN
- PROFINET IO devices, switches, and device names defined in the project
- Digital, analog, counter, PTO, PWM, and frequency devices within the integrated I/O limits

Lifecycle Status

Siemens lists 6ES7512-1CK01-0AB0 in PM400 product phase-out status, effective 1 October 2025.

4. Installation Precautions

- Memory card: Install the required SIMATIC Memory Card and preserve a verified project backup
- TIA Portal: Match CPU hardware, firmware, catalog entry, technology objects, and device configuration
- Integrated I/O: Verify voltage, current, analog range, counter, and pulse-output terminal assignments
- PROFINET: Preserve names, IP settings, topology, update times, and replacement-device behavior
- Commissioning: Test I/O, counters, PTO/PWM, communications, interlocks, and machine safety

STOP - Verify before installation

Use the complete 6ES7512-1CK01-0AB0 identifier. Siemens lists 6ES7512-1CK01-0AB0 in PM400 product phase-out status, effective 1 October 2025. Values not published in the cited Siemens source are intentionally not inferred.

Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens Industry Mall product record for 6ES7512-1CK01-0AB0:

<https://mall.industry.siemens.com/mall/en/oeii/Catalog/Product?SiepCountryCode=OE&mlfb=6ES7512-1CK01-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7512-1ck01-0ab0>

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.