# SIEMENS SIMATIC PLC SIMATIC S7-1500 CPU1513-1 PN 6ES7513-1AL02-0AB0 Central Processor Unit

Our Product Introduction

## Basic Information

- Place of Origin: Germany
- Brand Name: SIEMENS
- Certification: CE
- Model Number: CPU 1513-1 PN 6ES7513-1AL02-0AB0
- Minimum Order Quantity: 1
- Price: USD
- Packaging Details: 15,10 x 15,40 x 4,60
- Delivery Time: 10-12Days
- Payment Terms: L/C, T/T
- Supply Ability: 100

## Product Specification

- Weight: 0.5 Kg
- Number Of Digital Inputs: 32
- Power Supply: 24 V DC
- Operating Temperature: -20 To 60 Degrees Celsius
- Dimensions: 130 X 125 X 125 Mm
- Number Of Analog Inputs: 16
- Cpu Type: S7-1500
- Number Of Analog Outputs: 16
- Protection Rating: IP20
- Number Of I/O Modules: 32
- Number Of Digital Outputs: 32
- Memory: 2 MB

## Product Description

SIEMENS SIMATIC PLC SIMATIC S7-1500 CPU1513-1 PN 6ES7513-1AL02-0AB0 CENTRAL PROCESSOR UNIT

Product Introduction:
The 6ES7513-1AL02-0AB0 is a central processing unit (CPU) designed for industrial automation applications. It is part of the Siemens SIMATIC S7-1500 series, which is a family of programmable logic controllers (PLCs) known for their high-performance and advanced functionality.
Product Information and Specifications:
- Model: 6ES7513-1AL02-0AB0
The 6ES7513-1AL02-0AB0 CPU is equipped with a powerful processor that enables fast and efficient execution of control programs. It supports various programming languages, including ladder logic, function blocks, and structured text, providing flexibility in programming and allowing users to implement complex control logic.
In terms of memory capacity, the 6ES7513-1AL02-0AB0 offers ample storage space for both program and data. While the specific details were not provided in the query, typical configurations of the CPU include program memory ranging from 300 KB to 1 MB and data memory ranging from 1.5 MB to 12 MB. The available memory allows users to store their control program and data structures required for the operation of the PLC.
The 6ES7513-1AL02-0AB0 CPU is designed to operate in various industrial environments, providing reliable and precise control in applications such as manufacturing, process control, and machine automation. It supports a wide range of communication interfaces, including PROFINET, PROFIBUS, and Ethernet, allowing seamless integration with other devices and systems in the automation network.
The CPU is typically programmed and configured using Siemens' TIA Portal (Totally Integrated Automation Portal) software. The TIA Portal provides a user-friendly environment for programming, simulation, and diagnostics, simplifying the development and maintenance of automation projects.
Overall, the 6ES7513-1AL02-0AB0 is a powerful and versatile central processing unit suitable for demanding industrial automation applications. With its advanced features, ample memory capacity, and extensive communication capabilities, it provides efficient and reliable control for complex industrial processes.

| Engineering with | |
|---|---|
| ● STEP 7 TIA Portal configurable/integrated from version | V17 (FW V2.9) / V15 (FW V2.5) or higher; with older TIA Portal versions configurable as 6ES7513-1AL01-0AB0 |
| Configuration control | |
| via dataset | Yes |
| Display | |
| Screen diagonal [cm] | 3.45 cm |
| Control elements | |
| Number of keys | 8 |
| Mode buttons | 2 |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 5 ms |
| ● Repeat rate, min. | 1/s |
| Input current | |
| Current consumption (rated value) | 0.7 A |
| Current consumption, max. | 0.95 A |
| Inrush current, max. | 1.9 A; Rated value |
| I²t | 0.02 A²·s |
| Power | |
| Infeed power to the backplane bus | 10 W |
| Power consumption from the backplane bus (balanced) | 5.5 W |
| Power loss | |
| Power loss, typ. | 5.7 W |
| Memory | |
| Number of slots for SIMATIC memory card | 1 |
| SIMATIC memory card required | Yes |
| Work memory | |
| ● integrated (for program) | 300 kbyte |
| ● integrated (for data) | 1.5 Mbyte |
| Load memory | |
| ● Plug-in (SIMATIC Memory Card), max. | 32 Gbyte |
| Backup | |

| ● maintenance-free | Yes |
|---|---|
| CPU processing times | |
| for bit operations, typ. | 40 ns |
| for word operations, typ. | 48 ns |
| for fixed point arithmetic, typ. | 64 ns |
| for floating point arithmetic, typ. | 256 ns |

| programming / cycle time monitoring / header | |
|---|---|
| ● lower limit | adjustable minimum cycle time |
| ● upper limit | adjustable maximum cycle time |
| Dimensions | |
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |
| Weights | |
| Weight, approx. | 405 g |