SIEMENS PLC SIMATIC S7-1500CPU 1511C-1 PN 6ES7511-1CK00-0AB0 SIMATIC MEMORY CARD REQUIRED

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: SIEMENS
- Certification: CE
- Model Number: SIEMENS PLC SIMATIC 6ES7511-1CK00-0AB0
- 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

- Dimensions: 130 X 150 X 75 Mm
- Number Of Digital Inputs: 16
- Number Of Digital Outputs: 16
- Memory: 2 MB
- Certifications: CE, UL, CUL, FM, KC
- Operating Temperature Range: -20°C To +60°C
- Cpu Type: 1511C-1 PN
- Number Of Analog Outputs: 2
- Number Of I/O Modules: 32
- Weight: 0.5 Kg
- Power Supply: 24 V DC
- Number Of Analog Inputs: 6

Product Description

SIEMENS PLC SIMATIC S7-1500CPU 1511C-1 PN 6ES7511-1CK00-0AB0 SIMATIC MEMORY CARD REQUIRED
Product Introduction:
The SIEMENS PLC SIMATIC S7-1500 CPU 1511-1 CK 6ES7511-1CK00-0AB0 is a central processing unit (CPU) specifically designed for industrial automation applications. It is part of the Siemens SIMATIC S7-1500 series, known for its advanced functionality, high performance, and reliability.
Product Information and Specifications:
- Model: CPU 1511-1 CK 6ES7511-1CK00-0AB0
The CPU 1511-1 CK features a powerful processor that ensures fast and efficient execution of control programs. It supports multiple programming languages, including ladder logic, function blocks, and structured text, providing flexibility and ease of use for complex control tasks.
In terms of memory capacity, the CPU 1511-1 CK offers sufficient storage space for both program and data. While specific details were not provided in the query, typical configurations of the CPU include program memory ranging from 50 KB to 200 KB and data memory ranging from 50 KB to 200 KB. This memory capacity allows users to store their control programs and necessary data structures for the PLC's operation.
Designed to operate in demanding industrial environments, the CPU 1511-1 CK delivers reliable and precise control for applications such as manufacturing, process control, and machine automation. It supports a wide range of communication interfaces, enabling seamless integration with other devices and systems within the automation network.
The CPU 1511-1 CK is typically programmed and configured using Siemens' TIA Portal (Totally Integrated Automation Portal) software. The TIA Portal provides a comprehensive engineering environment for efficient programming, simulation, and diagnostics, ensuring easy development and maintenance of automation projects.
Product Attributes:
- Model: CPU 1511-1 CK 6ES7511-1CK00-0AB0
- Processor: Powerful processor for fast and efficient control program execution
- Programming Languages: Supports ladder logic, function blocks, and structured text
- Memory Capacity: Sufficient storage space for program and data
- Communication Interfaces: Supports various communication interfaces
- Engineering Software: Programmed and configured using Siemens' TIA Portal
- Suitable for: Manufacturing, process control, and machine automation applications
In summary, the SIEMENS PLC SIMATIC S7-1500 CPU 1511-1 CK 6ES7511-1CK00-0AB0 is a reliable CPU with advanced features, sufficient memory capacity, and seamless communication capabilities. It provides efficient and precise control for various industrial processes, making it suitable for a wide range of industrial automation applications.

General information	
Product type designation	CPU 1511C-1 PN
HW functional status	FS03
Firmware version	V2.9
Product function	
● I&M data	Yes; I&M0 to I&M3
● Isochronous mode	Yes; With minimum OB 6x cycle of 625 µs (distributed)
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V17 (FW V2.9) / V13 SP1 Update 4 (FW V1.8) or higher
Configuration control	
via dataset	Yes
Display	
Screen diagonal [cm]	3.45 cm
Control elements	
Number of keys	6
Mode selector switch	1
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V; 20.4 V DC, for supplying the digital inputs/outputs
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	5 ms; Refers to the power supply on the CPU section
● Repeat rate, min.	1/s
Input current	
Current consumption (rated value)	0.8 A; Digital onboard I/O modules are supplied separately
Inrush current, max.	1.9 A; Rated value
I^2t	0.34 $A^2 \cdot s$
Digital inputs	
● from load voltage L+ (without load), max.	20 mA; per group
Digital outputs	
● from load voltage L+, max.	30 mA; Per group, without load
output voltage / header	

Rated value (DC)	24 V
Encoder supply	
Number of outputs	1; One common 24 V encoder supply
24 V encoder supply	
● 24 V	Yes; L+ (-0.8 V)
● Short-circuit protection	Yes
● Output current, max.	1 A
Power	
Infeed power to the backplane bus	10 W
Power consumption from the backplane bus (balanced)	8.5 W
Power loss	
Power loss, typ.	11.8 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	
● integrated (for program)	175 kbyte
● integrated (for data)	1 Mbyte
Load memory	
● Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	
● maintenance-free	Yes
CPU processing times	
for bit operations, typ.	60 ns
for word operations, typ.	72 ns
for fixed point arithmetic, typ.	96 ns
for floating point arithmetic, typ.	384 ns
CPU-blocks	
Number of elements (total)	4 000; Blocks (OB, FB, FC, DB) and UDTs
DB	
● Number range	1 ... 60 999; subdivided into: number range that can be used by the user: 1 ... 59 999, and number range of DBs created via SFC 86: 60 000 ... 60 999
● Size, max.	1 Mbyte; For DBs with absolute addressing, the max. size is 64 KB
FB	
● Number range	0 ... 65 535
● Size, max.	175 kbyte
FC	
● Number range	0 ... 65 535
● Size, max.	175 kbyte
OB	
● Size, max.	175 kbyte
● Number of free cycle OBs	100
● Number of time alarm OBs	20
● Number of delay alarm OBs	20
● Number of cyclic interrupt OBs	20; With minimum OB 3x cycle of 500 µs
● Number of process alarm OBs	50
● Number of DPV1 alarm OBs	3
● Number of isochronous mode OBs	1
● Number of technology synchronous alarm OBs	2
● Number of startup OBs	100
● Number of asynchronous error OBs	4
● Number of synchronous error OBs	2

● Number of diagnostic alarm OBs	1
Nesting depth	
● per priority class	24

Dimensions	
Width	85 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	1 050 g