



SIEMENS PLC SIMATIC S7-1500 CPU 1516-3 PN/DP 6ES7516-3AN01-0AB0 central processing

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: SIEMENS
- Certification: CE
- Model Number: CPU 1515-2 PN 6ES7515-2AM02-0AB0
- 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

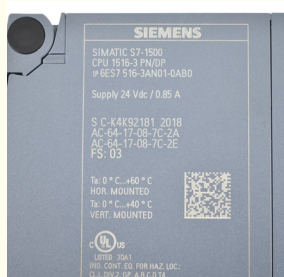


Product Specification



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Product Description

SIEMENS PLC SIMATIC S7-1500 CPU 1516-3 PN/DP 6ES7516-3AN01-0AB0 CENTRAL PROCESSING

Product Introduction:

The 6ES7516-3AN01-0AB0 is a central processing unit (CPU) designed for industrial automation applications. It is part of the Siemens SIMATIC S7-1500 series, a family of programmable logic controllers (PLCs) known for their high-performance and advanced functionality.

Product Information and Specifications:

- Model: 6ES7516-3AN01-0AB0

The 6ES7516-3AN01-0AB0 CPU features 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, offering flexibility in programming and allowing users to implement complex control logic.

In terms of memory capacity, the 6ES7516-3AN01-0AB0 provides ample 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 1.5 MB to 8 MB and data memory ranging from 1 MB to 32 MB. The available memory allows users to store their control programs and data structures required for the operation of the PLC.

The 6ES7516-3AN01-0AB0 CPU is designed to operate in various industrial environments, delivering reliable and precise control for applications such as manufacturing, process control, and machine automation. It supports a wide range of communication interfaces, including PROFINET, PROFIBUS, and Ethernet, enabling seamless integration with other devices and systems in the automation network.

The CPU supports advanced features such as hardware-based safety functions, motion control capabilities, and high-speed counters for precise and efficient control of industrial processes.

Product Attributes:

- Model: 6ES7516-3AN01-0AB0

- Processor: Powerful processor for fast and efficient execution of control programs

- Programming Languages: Supports ladder logic, function blocks, and structured text

- Memory Capacity: Ample storage space for program and data

- Communication Interfaces: Supports PROFINET, PROFIBUS, and Ethernet

- Advanced Features: Hardware-based safety functions, motion control capabilities, high-speed counters

- Suitable for: Manufacturing, process control, and machine automation applications

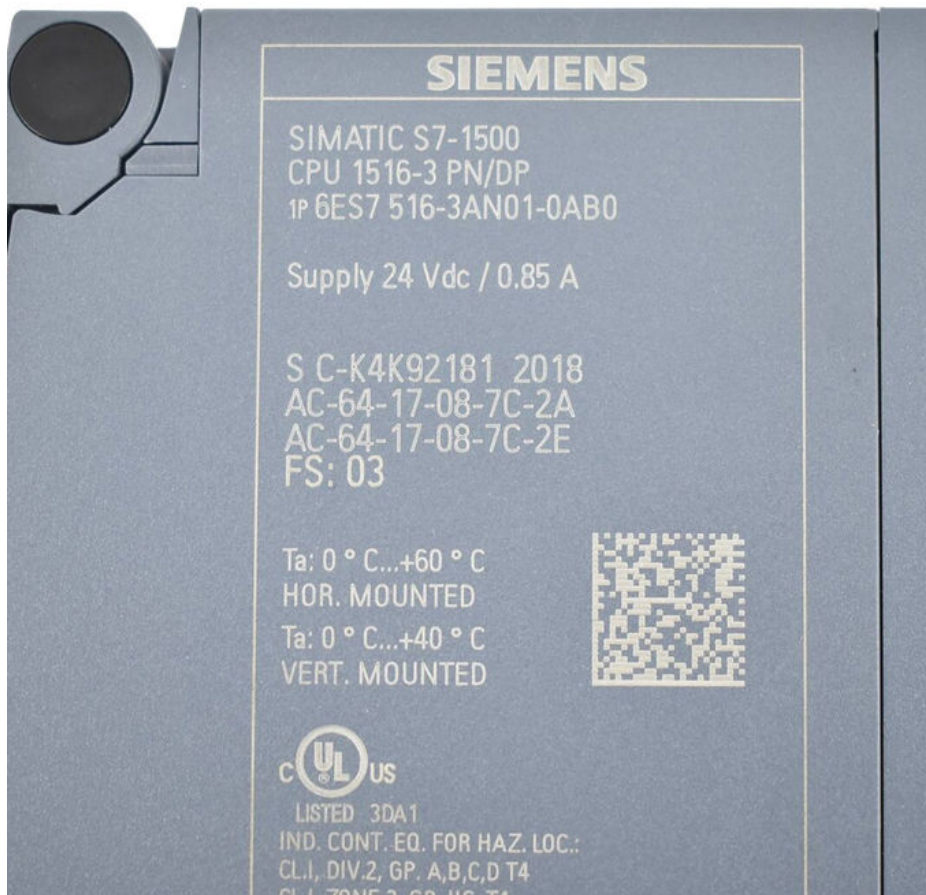
In summary, the 6ES7516-3AN01-0AB0 is a high-performance CPU with advanced features, ample memory capacity, and extensive communication capabilities. It provides efficient and reliable control for complex industrial processes, making it suitable for a wide range of industrial automation applications.

General information	
Product type designation	CPU 1516-3 PN/DP
HW functional status	FS03
Firmware version	V2.9
Product function	
● I&M data	Yes; I&M0 to I&M3
● Isochronous mode	Yes; Distributed and central; with minimum OB 6x cycle of 375 µs (distributed) and 1 ms (central)
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]	6.1 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
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)	0.85 A
Inrush current, max.	2.4 A; Rated value
I^2t	0.02 A ² ·s
Power	
Infeed power to the backplane bus	12 W

Power consumption from the backplane bus (balanced)	6.7 W
Power loss	
Power loss, typ.	7 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	
● integrated (for program)	1 Mbyte
● integrated (for data)	5 Mbyte
Load memory	
● Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	
● maintenance-free	Yes
CPU processing times	
for bit operations, typ.	10 ns
for word operations, typ.	12 ns
for fixed point arithmetic, typ.	16 ns
for floating point arithmetic, typ.	64 ns
CPU-blocks	
Number of elements (total)	8 000; 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.	5 Mbyte; For DBs with absolute addressing, the max. size is 64 KB
FB	
● Number range	0 ... 65 535
● Size, max.	1 Mbyte
FC	
● Number range	0 ... 65 535
● Size, max.	1 Mbyte
OB	
● Size, max.	1 Mbyte
● 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 250 µs
● Number of process alarm OBs	50
● Number of DPV1 alarm OBs	3
● Number of isochronous mode OBs	3
● 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	70 mm
Height	147 mm
Depth	129 mm
Weights	

Weight, approx.	845 g
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