SIEMENS PLC SIMATIC S7-1500 "CPU 1516PRO F-2 PN*" 6ES7516-2GP03-0AB0 MEMORY CARD REQUIRED

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: SIEMENS
- Certification: CE
- Model Number: 6ES7518-4UP00-0AB0
- Minimum Order Quantity: 1
- 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

- Number Of Technology Modules: 32 TM
- Protection Rating: IP20
- Number Of Digital Inputs: 16 DI
- Number Of Motion Control Axes: 32 MC
- Maximum Program Memory: 750 KB
- Cpu Type: S7-1500
- Number Of Digital Outputs: 16 DO
- Number Of Analog Outputs: 8 AO
- Operating Temperature Range: -25 To 60 Degrees Celsius
- Number Of Communication Modules: 8 CM
- Maximum Data Memory: 12 MB
- Power Supply: 24 V DC

Product Description

SIEMENS PLC SIMATIC S7-1500 "CPU 1516PRO F-2 PN*" 6ES7516-2GP03-0AB0 MEMORY CARD REQUIRED

Product Introduction:
The SIEMENS PLC SIMATIC S7-1500 CPU 1516-2 GP 6ES7516-2GP03-0AB0 is a high-performance and versatile central processing unit (CPU) specifically designed for industrial automation applications. It is part of the SIEMENS SIMATIC S7-1500 series, known for its reliability, flexibility, and advanced features.
Product Information and Specifications:
- Model: CPU 1516-2 GP 6ES7516-2GP03-0AB0
The CPU 1516-2 GP is equipped with a powerful processor that ensures high-performance execution of control programs. It supports multiple programming languages, including ladder logic, function blocks, and structured text, providing flexibility and ease of use for various control tasks.
In terms of memory capacity, the CPU 1516-2 GP offers ample storage space for programs and data. Although specific details were not provided in the query, typical configurations of the CPU include program memory ranging from 4 MB to 12 MB and data memory ranging from 4 MB to 12 MB. This allows users to store large and complex control programs and data structures required for the PLC's operation.
The CPU 1516-2 GP is designed to handle demanding automation applications and complex control tasks. It offers advanced features such as built-in diagnostics, security functions, and high-speed communication interfaces, enabling seamless integration with other devices and systems within the automation network.
Programming and configuration of the CPU 1516-2 GP are typically performed using Siemens' TIA Portal (Totally Integrated Automation Portal) software. The TIA Portal provides a comprehensive engineering environment for efficient programming, simulation, and diagnostics, ensuring streamlined development and maintenance of automation projects.
Product Attributes:
- Model: CPU 1516-2 GP 6ES7516-2GP03-0AB0
- Processor: Powerful processor for high-performance control program execution
- Programming Languages: Supports ladder logic, function blocks, and structured text
- Memory Capacity: Ample storage space for programs and data
- Advanced Features: Built-in diagnostics, security functions, high-speed communication interfaces
- Engineering Software: Programmed and configured using Siemens' TIA Portal
- High Performance: Designed for demanding automation applications and complex control tasks
In summary, the SIEMENS PLC SIMATIC S7-1500 CPU 1516-2 GP 6ES7516-2GP03-0AB0 is a high-performance and versatile CPU offering powerful processing capabilities, ample memory capacity, and advanced features. It is designed to handle complex automation applications and demanding control tasks with precision and efficiency. With its advanced functionalities and flexibility, it is an ideal choice for a wide range of industrial automation applications, ensuring reliable and high-performance control.

General information	
Product type designation	CPU 1516pro F-2 PN
HW functional status	FS01
Firmware version	V3.1
● FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
● Isochronous mode	Yes; Via X1, with minimum OB 6x cycle of 500 µs
● SysLog	Yes
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V19 (FW V3.1); with older TIA Portal versions configurable as 6ES7516-2GN00-0AB0
Configuration control	
via dataset	No
Control elements	
Mode selector switch	1
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption (rated value)	0.22 A
Current consumption, max.	0.35 A
Inrush current, max.	0.63 A; Rated value
I^2t	0.3 $A^2 \cdot s$
from supply voltage 1L+, max.	0.35 A
Power	

Infeed power to the backplane bus	2.275 W
Power loss	
Power loss, typ.	3.3 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	
● integrated (for program)	3 Mbyte
● integrated (for data)	7.5 Mbyte
Load memory	
● Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	
● maintenance-free	Yes
CPU processing times	
for bit operations, typ.	6 ns
for word operations, typ.	7 ns
for fixed point arithmetic, typ.	9 ns
for floating point arithmetic, typ.	37 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.	7.5 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	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; Up to 8 possible for F-blocks
Counters, timers and their retentivity	
S7 counter	
● Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
● Number	Any (only limited by the main memory)

Retentivity	
— adjustable	Yes
S7 times	
● Number	2 048
Retentivity	
— adjustable	Yes
IEC timer	
● Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB
Flag	
● Size, max.	16 kbyte
● Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	
● Retentivity adjustable	Yes
● Retentivity preset	No
Local data	
● per priority class, max.	64 kbyte; max. 16 KB per block
Address area	
Number of IO modules	8 192; max. number of modules / submodules
I/O address area	
● Inputs	32 kbyte; All inputs are in the process image
● Outputs	32 kbyte; All outputs are in the process image
per integrated IO subsystem	
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte

Dimensions	
Width	135 mm
Height	130 mm
Depth	65 mm; without connection module M12 7/8 inch
Weights	
Weight, approx.	492 g; device only

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