SIEMENS PLC SIMATIC S7-1500 CPU 1518T-4 PN/DP 6ES7518-4TP00-0AB0 WORK MEMORY FOR PROGRAM

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: SIEMENS
- Certification: CE
- Model Number: 6ES7518-4TP00-0AB0
- 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

- Number Of Digital Outputs: 32
- Operating Temperature Range: -20 To 60 Degrees Celsius
- Number Of Usb Interfaces: 2
- Number Of Profibus Interfaces: 2
- Number Of Industrial Ethernet Interfaces: 4
- Number Of Analog Outputs: 8
- Number Of Analog Inputs: 8
- Number Of Sd Card Slots: 1
- Number Of Communication Modules: 8
- Number Of Profinet Interfaces: 2
- Number Of Technology Modules: 32

Product Description

SIEMENS PLC SIMATIC S7-1500 CPU 1518T-4 PN/DP 6ES7518-4TP00-0AB0 WORK MEMORY FOR PROGRAM
Product Introduction:
The SIEMENS PLC SIMATIC S7-1500 CPU 1518-4 TP 6ES7518-4TP00-0AB0 is a powerful and reliable central processing unit (CPU) designed for industrial automation applications. It belongs to the SIEMENS SIMATIC S7-1500 series, known for its high performance, flexibility, and advanced features.
Product Information and Specifications:
- Model: CPU 1518-4 TP 6ES7518-4TP00-0AB0
The CPU 1518-4 TP is equipped with a high-performance 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 various control tasks.
In terms of memory capacity, the CPU 1518-4 TP 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 12 MB to 20 MB and data memory ranging from 12 MB to 20 MB. This allows users to store large and complex control programs and data structures required for the PLC's operation.
The CPU 1518-4 TP is designed to handle demanding automation applications and complex control tasks. It offers advanced features such as high-speed communication interfaces, built-in diagnostics, and security functions, enabling seamless integration with other devices and systems within the automation network.
Programming and configuration of the CPU 1518-4 TP 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 1518-4 TP 6ES7518-4TP00-0AB0
- Processor: High-performance processor for fast control program execution
- Programming Languages: Supports ladder logic, function blocks, and structured text
- Memory Capacity: Ample storage space for programs and data
- Advanced Features: High-speed communication interfaces, built-in diagnostics, security functions
- 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 1518-4 TP 6ES7518-4TP00-0AB0 is a powerful and reliable CPU offering high performance, ample memory capacity, and advanced features. It is designed to handle demanding automation applications 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 1518T-4 PN/DP
HW functional status	FS11
Firmware version	V3.1
● FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
● Isochronous mode	Yes; Distributed and central; with minimum OB 6x cycle of 125 µs (distributed) and 1 ms (central)
● SysLog	Yes
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V19 (FW V3.1) / V17 (FW V2.9) 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)	1.55 A
Current consumption, max.	1.9 A
Inrush current, max.	1.9 A; Rated value
I^2t	0.4 $A^2 \cdot s$
Power	
Infeed power to the backplane bus	12 W
Power consumption from the backplane bus (balanced)	30 W
Power loss	
Power loss, typ.	24 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	
● integrated (for program)	9 Mbyte
● integrated (for data)	60 Mbyte
Load memory	
● Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	
● maintenance-free	Yes
CPU processing times	
for bit operations, typ.	1 ns
for word operations, typ.	2 ns
for fixed point arithmetic, typ.	2 ns
for floating point arithmetic, typ.	6 ns
CPU-blocks	
Number of elements (total)	20 000; 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.	16 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 100 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
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.	768 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 700 KB
Extended retentive data area (incl. timers, counters, flags), max.	20 Mbyte; When using PS 6 0W 24/48/60 V DC HF
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	16 384; 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)	32 kbyte; max. 32 KB via X1; max. 8 KB via X2 or X4
— Outputs (volume)	32 kbyte; max. 32 KB via X1; max. 8 KB via X2 or X4
per CM/CP	
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	
● Number of subprocess images, max.	32
Hardware configuration	

Number of distributed IO systems	64; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET or PROFIBUS communication modules, but also by the connection of I/O via AS-i master modules or links (e.g. IE/PB-Link)
Number of DP masters	
● integrated	1
● Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Number of IO Controllers	
● integrated	2
● Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Rack	
● Modules per rack, max.	32; CPU + 31 modules
● Number of lines, max.	1
PtP CM	
● Number of PtP CMs	the number of connectable PtP CMs is only limited by the number of available slots
Time of day	
Clock	
● Type	Hardware clock
● Backup time	6 wk; At 40 °C ambient temperature, typically
● Deviation per day, max.	10 s; Typ.: 2 s
Operating hours counter	
● Number	16

Dimensions	
Width	175 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	2 079 g

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