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SIEMENS6ES7512-1DK01-0AB0 SIMATIC Memory Card required, BusAdapter required for Port 1 and 2

Basic Information

Place of Origin: GermanyBrand Name: SIEMENSCertification: CE

Model Number: 6ES7512-1DK01-0AB0

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

Product Description

SIEMENS6ES7512-1DK01-0AB0 SIMATIC Memory Card required, BusAdapter required for Port 1 and 2 The SIEMENS 6ES7512-1DK01-0AB0 is a central processing unit (CPU) that is part of the SIMATIC S7-1500 automation system. Here are the key details about this CPU:

SIMATIC Memory Card Required:

- Like other SIMATIC S7-1500 CPUs, this model requires a SIMATIC memory card to be inserted for operation.
- The memory card provides storage for the user program, configuration data, and other runtime information.

BusAdapter Required for Port 1 and Port 2:

- This CPU has two Ethernet/PROFINET ports.
- However, to use these ports, a separate BusAdapter is required to be connected.
- The BusAdapter provides the necessary connectivity for the Ethernet/PROFINET interfaces.

Other Features:

- CPU Type: CPU 1512SP-1 PN
- Work Memory: 300 KB for program and 1 MB for data
- Compact, space-saving design in an ET 200SP module
- Part of the modular SIMATIC S7-1500 system
 Programmed using the STEP 7 engineering software

The key distinguishing features of this CPU model are its compact, space-saving design in the ET 200SP module format and the requirement for a BusAdapter to be connected to the Ethernet/PROFINET ports.

This makes the CPU 1512SP-1 PN well-suited for applications where space is limited, such as in distributed control systems or in confined areas. The BusAdapter requirement provides flexibility in terms of the type of network connectivity required for the

Overall, this CPU model is a compact and versatile option within the SIMATIC S7-1500 automation system, designed for applications that need a smaller form factor but still require the capabilities of the S7-1500 platform.

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General information	
Product type designation	
HW functional status	FS05
Firmware version	V2.9
Product function	
I&M data	Yes; I&M0 to I&M3
 Module swapping 	
during operation (hot	Yes; Multi-hot swapping
swapping)	
 Isochronous mode 	Yes; Only with PROFINET; with minimum OB 6x cycle of 625 μs
Engineering with	
STEP 7 TIA Portal	
configurable/integrated	V17 (FW V2.9) / V13 SP1 Update 4 (FW V1.8) or higher
from version	
Configuration control	
via dataset	Yes
Control elements	<u>'</u>
Mode selector switch	1
Supply voltage	1
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
Input current	·
Current consumption	
(rated value)	0.6 A
Current consumption,	0.0.4
max.	0.9 A
Inrush current, max.	4.7 A; Rated value
I ² t	0.14 A ² ·s
Power	1
Infeed power to the	L
backplane bus	8.75 W
Power loss	1
Power loss, typ.	5.6 W
Memory	0.0 1.
Number of slots for	
SIMATIC memory card	1
SIMATIC memory card	
required	Yes
Work memory	<u>'</u>
• integrated (for	
program)	200 kbyte
,	

integrated (for data)	1 Mbyte
Load memory	i moyto
Plug-in (SIMATIC	22 Chuta
Memory Card), max.	32 Gbyte
Backup	
maintenance-free	Yes
CPU processing times for bit operations, typ.	48 ns
for word operations, typ.	58 ns
for fixed point arithmetic,	
typ.	77 ns
for floating point	307 ns
arithmetic, typ.	507 110
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
FB	KB
Number range	0 65 535
Size, max.	200 kbyte
FC	· · · · · · · ·
Number range	0 65 535
■ Size, max.	200 kbyte
ОВ	
Size, max.	200 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	3
alarm OBs Number of	
isochronous mode OBs	1
Number of technology	2
synchronous alarm OBs Number of startup OBs	100
Number of	100
asynchronous error OBs	4
Number of	2
synchronous error OBs	
 Number of diagnostic alarm OBs 	1
Nesting depth	
per priority class	24
Counters, timers and the	ir retentivity
S7 counter Number	2 048
Retentivity	پر ۱ ۹ ۰۰ د ۱۹۰۰ د ۱۹۰ د ۱۹ د ۱۹
— adjustable	Yes
IEC counter	1
Number	Any (only limited by the main memory)
Retentivity	•
— adjustable	Yes
S7 times	
Number	2 048
Retentivity	Voc
adjustable IEC timer	Yes
Number	Any (only limited by the main memory)
Retentivity	y any termy minited by the main memory)
— adjustable	Yes
Data areas and their rete	

Retentive data area (incl. timers, counters, flags), max.	128 kbyte; Available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 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





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