SIEMENS 6ES7511-1CK00-0AB0 PROFINET IRT WITH 2-PORT SWITCH, 60 NS BIT PERFORMANCE, INCL. PUSH-IN FRONT CONNECTOR, SIMAT

Basic Information

VOBOAL

Place of Origin: GermanyBrand Name: SIEMENSCertification: CE

Model Number: 6ES7511-1CK00-0AB0

Minimum Order Quantity: 1Price: 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

SIEMENS 6ES7511-1CK00-0AB0 PROFINET IRT WITH 2-PORT SWITCH, 60 NS BIT PERFORMANCE, INCL. PUSH-IN FRONT CONNECTOR, SIMAT

The SIEMENS 6ES7511-1CK00-0AB0 is a central processing unit (CPU) that is part of the SIMATIC S7-1500 automation system. Here are the key details about this CPU:

PROFINET IRT with 2-Port Switch:

- This CPU has a built-in PROFINET interface with an integrated 2-port switch.
- The PROFINET interface supports the PROFINET IRT (Isochronous Real-Time) communication protocol, which enables highly synchronized and deterministic data exchange.
- The 2-port switch allows the CPU to be connected directly to other PROFINET devices without requiring an external switch. Fast 60 ns Bit Performance:
- This CPU has a bit performance of 60 nanoseconds per bit operation.
- While not as fast as some higher-end S7-1500 CPUs, the 60 ns bit performance still provides very responsive control capabilities.

Push-In Front Connector:

- The CPU comes with a push-in front connector for the PROFINET interface.
- This push-in connector provides a convenient and tool-free way to connect PROFINET cables to the 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. Other Features:
- Work Memory: 300 KB for program and 1 MB for data
- Part of the modular SIMATIC S7-1500 system
- Programmed using the STEP 7 engineering software

The key distinguishing features of this CPU model are the integrated PROFINET IRT interface with a 2-port switch, the fast 60 ns bit performance, and the push-in front connector.

These capabilities make the CPU 1511-1 PN a good choice for applications that require highly synchronized and deterministic industrial Ethernet communication, but may not need the extreme processing speeds of higher-end S7-1500 CPUs.

The 2-port switch and push-in connector provide convenient connectivity options, while the 60 ns bit performance still delivers responsive control for many industrial automation tasks.

Overall, the 6ES7511-1CK00-0AB0 is a versatile and capable CPU within the SIMATIC S7-1500 portfolio, well-suited 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/integra ted from version 			
Configuration contro	ol		
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		
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		
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	
I²t	0.34 A ² ·s	
Digital inputs	·	
 from load voltage 		
L+ (without load),	20 mA; per group	
max.		
Digital outputs • from load voltage		
L+, max.	30 mA; Per group, without load	
output voltage / hea	der	
Rated value (DC)	24 V	
Encoder supply		
Number of outputs	1; One common 24 V encoder supply	
24 V encoder suppl		
• 24 V	Yes; L+ (-0.8 V)	
 Short-circuit protection 	Yes	
Output current,		
max.	1 A	
Power		
Infeed power to the	10 W	
backplane bus		
Power consumption		
from the backplane	8.5 W	
bus (balanced)		
Power loss typ	11.8 W	
Power loss, typ. Memory	J1 1.U VY	
Number of slots for		
SIMATIC memory	1	
card		
SIMATIC memory	Yes	
card required		
Work memory		
• integrated (for	175 kbyte	
program)	·	
integrated (for data)	1 Mbyte	
Load memory		
● Plug-in (SIMATIC		
Memory Card),	32 Gbyte	
max.	·	
Backup		
maintenance-free		
CPU processing tim	es	
for bit operations,	60 ns	
typ.		
for word operations, typ.	72 ns	
for fixed point		
arithmetic, typ.	96 ns	
for floating point	384 ns	
arithmetic, typ.	OOT 113	
CPU-blocks		
Number of	4 000; Blocks (OB, FB, FC, DB) and UDTs	
elements (total)		
DB	4 60 000 guiddivided into number reason that are he would be the	
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	
ОВ		
Size, max.	175 kbyte	
Number of free Number of free	100	
cycle OBs 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	50
process alarm OBs	50
Number of DPV1	3
alarm OBs	
Number of isochronous mode	1
OBs	
 Number of 	
technology	2
synchronous alarm	
OBs	
 Number of startup OBs 	100
Number of	
asynchronous error	4
OBs	
Number of	
synchronous error	2
OBs • Number of	
 Number of diagnostic alarm 	1
OBs	[
Nesting depth	1
	24
Counters, timers an	d their retentivity
S7 counter	
Number	2 048
Retentivity	-
— adjustable	Yes
IEC counter	Ann / and Brack and broken are in consequence
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
S7 times	
Number	2 048
	2 048
Retentivity	
Retentivity — adjustable	Yes
Retentivity — adjustable IEC timer	Yes
Retentivity — adjustable IEC timer • Number	
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Retentivity — adjustable IEC timer • Number Retentivity — adjustable Data areas and thei	Yes Any (only limited by the main memory) Yes r retentivity
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Retentivity — adjustable IEC timer • Number Retentivity — adjustable Data areas and thei Retentive data area (incl. timers, counters, flags), max. Extended retentive data area (incl. timers, counters, flags), max. Flag • Size, max. • Number of clock memories	Yes Any (only limited by the main memory) Yes retentivity 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 1 Mbyte; When using PS 6 0W 24/48/60 V DC HF
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— Outputs		
(volume)	8 kbyte	
per CM/CP	<u>I</u>	
— Inputs (volume) 8 kbyte		
— Outputs	8 kbyte	
(volume)	·	
Subprocess images		
Number of	32	
subprocess images, max.	32	
Hardware configura	tion	
	32; A distributed I/O system is characterized not only by the integration	
Number of	of distributed I/O via PROFINET or PROFIBUS communication	
distributed IO systems	modules, but also by the connection of I/O via AS-i master modules or	
	links (e.g. IE/PB-Link)	
Number of DP mast		
Via CM	4; A maximum of 4 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total	
Number of IO Contr		
• integrated	1	
	4; A maximum of 4 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can	
● Via CM	be inserted in total	
Rack	·	
Modules per	32; CPU + 31 modules	
rack, max.	02, 01 0 T 01 III000103	
PtP CM		
Number of PtP Number of PtP	the number of connectable PtP CMs is only limited by the number of	
CMs	available slots	
Time of day		
Clock ● Type	Hardware clock	
Backup time		
Deviation per	6 wk; At 40 °C ambient temperature, typically	
day, max.	10 s; Typ.: 2 s	
Operating hours cou	unter	
Number	16	
Clock synchronizati	on	
supported	Yes	
in AS, master	Yes	
in AS, slave	Yes	
on Ethernet via	Yes	
NTP	1.00	
Digital inputs		
integrated channels	16	
(DI) Digital inputs,		
parameterizable	Yes	
Source/sink input	P-reading	
Input characteristic	~	
curve in	Yes	
accordance with	100	
IEC 61131, type 3		
Digital input function		
Gate start/stop	Yes	
Capture Synabranization	Yes	
Synchronization	Yes	
Input voltage Type of input		
voltage	DC	
● Rated value (DC)	1 24 V	
• for signal "0"	-3 to +5V	
• for signal "1"	+11 to +30V	
Input current	1	
• for signal "1", typ.	2.5 mA	
	d value of input voltage)	
for standard inputs		
	Yes; none / 0.05 / 0.1 / 0.4 / 1.6 / 3.2 / 12.8 / 20 ms	
— parameterizable	Yes; none / 0.05 / 0.1 / 0.4 / 1.6 / 3.2 / 12.8 / 20 ms 4 µs; for parameterization "none"	
— parameterizable	4 μs; for parameterization "none"	
parameterizable at "0" to "1", min. at "0" to "1", max.	4 μs; for parameterization "none" 20 ms	
parameterizable at "0" to "1", min. at "0" to "1", max. at "1" to "0", min.	4 μs; for parameterization "none"	
— parameterizable — at "0" to "1", min. — at "0" to "1", max. — at "1" to "0", min. — at "1" to "0",	4 μs; for parameterization "none" 20 ms	
— parameterizable — at "0" to "1", min. — at "0" to "1", max. — at "1" to "0", min. — at "1" to "0", max.	4 μs; for parameterization "none" 20 ms 4 μs; for parameterization "none"	
parameterizable at "0" to "1", min. at "0" to "1", max. at "1" to "0", min. at "1" to "0", max. for interrupt inputs	4 μs; for parameterization "none" 20 ms 4 μs; for parameterization "none"	

for technological functions			
— parameterizable	Yes; Same as for standard inputs		
Cable length	·		
• shielded, max.	1 000 m; 600 m for technological functions; depending on input frequency, encoder and cable quality; max. 50 m at 100 kHz		
unshielded, max.	600 m; for technological functions: No		
Digital outputs	·		
Type of digital output	Transistor		
integrated channels (DO)	16		
Current-sourcing	Yes; Push-pull output		
Short-circuit protection	Yes; electronic/thermal		
 Response threshold, typ. 	1.6 A with standard output, 0.5 A with high-speed output; see manual for details		
Limitation of inductive shutdown voltage to	-0.8 V		
Controlling a digital input	Yes		



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