

SIMATIC S7-1500

Installation Instructions

6ES7512-1CK01-0AB0

CPU 1512C-1 PN Compact Controller

MEMORY	DIGITAL I/O	ANALOG I/O	SUPPLY
250 KB / 1 MB	32 DI / 32 DQ	5 AI / 2 AQ	24 V DC

01 PRODUCT VERIFICATION

Article number	6ES7512-1CK01-0AB0
Product	CPU 1512C-1 PN Compact Controller
Family	SIMATIC S7-1500
Product type	CPU 1512C-1 PN compact controller
Hardware functional status	FS03
Firmware version	V2.9
Program work memory	250 KB
Data work memory	1 MB

02 BEFORE INSTALLATION

- Disconnect the 24 V DC supply and all field circuits before installing or wiring the CPU.
- Mount the CPU on the specified S7-1500 mounting rail and maintain the documented installation clearances.

OFFICIAL INSTALLATION DRAWING

The selected Siemens source page is retained as the installation and wiring reference. Use the current controlled manual for final work.

Configuration			
Programming			
Programming language			
— LAD	Yes		
— FBD	Yes		
— STL	Yes		
— SCL	Yes		
— GRAPH	Yes		
Know-how protection			
• User program protection/password protection	Yes		
• Copy protection	Yes		
• Block protection	Yes		
Access protection			
• protection of confidential configuration data	Yes		
• Password for display	Yes		
• Protection level: Write protection	Yes		
• Protection level: Read/write protection	Yes		
• Protection level: Complete protection	Yes		
Cycle time monitoring			
• lower limit	adjustable minimum cycle time		
• upper limit	adjustable maximum cycle time		
Dimensions			
Width	110 mm		
Height	147 mm		
Depth	129 mm		
Weights			
Weight, approx.	1 360 g		
Classifications			
		Version	Classification
	eClass	16	27-24-22-07
	eClass	14	27-24-22-07
	eClass	12	27-24-22-07
	eClass	9.1	27-24-22-07
	eClass	9	27-24-22-07
	eClass	8	27-24-22-07
	eClass	7.1	27-24-22-07
	eClass	6	27-24-22-07
	ETIM	10	EC000236
	ETIM	9	EC000236
	ETIM	8	EC000236
	ETIM	7	EC000236
	IDEA	4	3565
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			
Miscellaneous		UK CA	Manufacturer Declaration
	EG-Kenf.		
			UL
			Miscellaneous
General Product Approval		For use in hazardous locations	

04 INSTALLATION SEQUENCE

01

Disconnect the 24 V DC supply and all field circuits before installing or wiring the CPU.

02

Mount the CPU on the specified S7-1500 mounting rail and maintain the documented installation clearances.

03

Insert the required SIMATIC Memory Card and wire the integrated I/O and PROFINET ports according to the verified hardware configuration.

04

Check the firmware, TIA Portal project, power supply and channel parameters before returning the controller to service.

05 OFFICIAL DOCUMENTATION

SIMATIC S7-1500 CPU 1512C-1 PN Technical Data (6ES7512-1CK01-0AB0)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

06 SUPPORT CONTACT

AMIKON PRODUCT SUPPORT

Amikon Limited

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM