SIEMENS

Data sheet 6ES7512-1DM03-0AB0



Figure similar

SIMATIC DP, CPU 1512SP-1 PN for ET 200SP, central processing unit with 400 KB work memory for program and 2 MB for data, 1st interface: PROFINET IRT with 3-port switch, 6 ns bit performance, including server module (6ES7193-6PA00-0AA0); SIMATIC Memory Card required, BusAdapter required for port 1 and 2

General information	
Product type designation	CPU 1512SP-1 PN
HW functional status	FS06
Firmware version	V4.2
● FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
● Module swapping during operation (hot swapping)	Yes; Multi-hot swapping
● Isochronous mode	Yes; only with PROFINET; with minimum OB 6x cycle of 500 µs
● SysLog	Yes
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V21.1 (FW V4.2) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7512-1DK01-0AB0
Configuration control	
via dataset	Yes
Control elements	
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	10 ms
Input current	
Current consumption (rated value)	0.48 A
Current consumption, max.	0.7 A
Inrush current, max.	1.34 A; Rated value
I^2t	0.3 $A^2 \cdot s$
Power	
Infeed power to the backplane bus	8.05 W
Power loss	
Power loss, typ.	3.4 W
Processor	
Multi-core processor	

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● Protection level: Write protection	Yes
● Protection level: Read/write protection	Yes
● Protection level: Write protection for Failsafe	No
● Protection level: Complete protection	Yes
● User administration	Yes; device-wide and centralized
● Number of users	100
● Number of groups	100
● Number of roles	50
Cycle time monitoring	
● lower limit	adjustable minimum cycle time
● upper limit	adjustable maximum cycle time
Dimensions	
Width	100 mm
Height	117 mm
Depth	75 mm
Weights	
Weight, approx.	265 g

Classifications

	Version	Classification
eClass	16	27-24-26-07
eClass	14	27-24-26-07
eClass	12	27-24-26-07
eClass	9.1	27-24-26-07
eClass	9	27-24-26-07
eClass	8	27-24-26-07
eClass	7.1	27-24-26-07
eClass	6	27-24-26-07
ETIM	10	EC001603
ETIM	9	EC001603
ETIM	8	EC001603
ETIM	7	EC001603
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Manufacturer Declaration | Miscellaneous | Miscellaneous

General Product Approval

TUEV | Manufacturer Declaration | China RoHS

For use in hazardous locations

FM | CCC-Ex | Type Examination Certificate

For use in hazardous locations	Maritime application

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