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Data sheet 6ES7547-1JF00-0AB0

S7-1500, CM 8xIO-Link, communication module IO-Link Master V1.1; Front connector (screw terminals or push-in) to be ordered separately

General information	
Product type designation	CM 8xIO-Link
HW functional status	FS04
Firmware version	V1.0.2
● FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
● Isochronous mode	No
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V15.1 with HSP 274
● STEP 7 configurable/integrated from version	Configurable via GSD file
● PROFIBUS from GSD version/GSD revision	GSD as of Revision 5
● PROFINET from GSD version/GSD revision	GSDML V2.34
Operating mode	
● IO-Link	Yes
● DI	Yes
● DQ	No
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	50 mA; without load
Encoder supply	
Number of outputs	8
Output current	
● Rated value	1 A; 4 A total current per module
24 V encoder supply	
● Short-circuit protection	Yes; per channel, electronic
Power	
Power consumption from the backplane bus	1.1 W
IO-Link	
Number of ports	8
● of which simultaneously controllable	8
IO-Link protocol 1.0	Yes
IO-Link protocol 1.1	Yes
Cycle time, min.	2 ms
Size of process data, input per port	33 byte; max.
Size of process data, input per module	240 byte; max.
Size of process data, output per port	32 byte; max.
Size of process data, output per module	240 byte; max.
Memory size for device parameter	2 kbyte; for each port
Master backup	Yes
Configuration without S7-PCT	Yes
Cable length unshielded, max.	20 m
Time Based IO	
● TIO IO-Link IN	No
● TIO IO-Link OUT	No

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● TIO IO-Link IN/OUT	No
Connection of IO-Link devices	
● Port type A	Yes
● Port type B	Yes; 24 V DC via external terminal
Interrupts/diagnostics/status information	
Alarms	
● Diagnostic alarm	Yes; The port diagnosis is available in the IO-Link mode only.
Diagnoses	
● Monitoring the supply voltage	Yes
● Wire break	Yes
● Short-circuit	Yes
● Group error	Yes
Diagnostics indication LED	
● Monitoring of the supply voltage (PWR-LED)	Yes; green LED
● Channel status display	Yes; green LED
● for channel diagnostics	Yes; red LED
● for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	
● between the channels	No
● between the channels and backplane bus	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-30 °C
● horizontal installation, max.	60 °C; Observe derating
● vertical installation, min.	-30 °C
● vertical installation, max.	40 °C; Observe derating
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm

Classifications

	Version	Classification
eClass	16	27-24-22-08
eClass	14	27-24-22-08
eClass	12	27-24-22-08
eClass	9.1	27-24-22-08
eClass	9	27-24-22-08
eClass	8	27-24-22-08
eClass	7.1	27-24-22-08
eClass	6	27-24-22-08
ETIM	10	EC001423
ETIM	9	EC001423
ETIM	8	EC001423
ETIM	7	EC001423
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

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Manufacturer Declaration

Miscellaneous

General Product Approval

China RoHS

For use in hazardous locations

FM

CCC-Ex

For use in hazardous locations

Type Examination Certificate

Miscellaneous

CCC-Ex

Maritime application

Maritime application

NK / Nippon Kaiji Kyokai

CCS (China Classification Society)

KR (Korean Register of Shipping)

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