



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
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 available 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		
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	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	9	EC001423
	ETIM	8	EC001423
	ETIM	7	EC001423
	IDEA	4	3564
	UNSPSC	15	32-15-17-05
Approvals / Certificates			

General Product Approval

For use in hazardous locations

[Manufacturer Declaration](#)


EG-Konf.




UL


RCM


UL

For use in hazardous locations

[FM](#)

[CCC-Ex](#)


ATEX

[Type Examination Certificate](#)


IECEX

[Miscellaneous](#)

Marine / Shipping


ABS


BUREAU
VERITAS


DNV


LRS

[NK / Nippon Kaiji Kyokai](#)


RINA

Marine / Shipping

[CCS \(China Classification Society\)](#)


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