



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
<ul style="list-style-type: none"> FW update possible 	Yes
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> Isochronous mode 	No
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	V15.1 with HSP 274
<ul style="list-style-type: none"> STEP 7 configurable/integrated from version 	Configurable via GSD file
<ul style="list-style-type: none"> PROFIBUS from GSD version/GSD revision 	GSD as of Revision 5
<ul style="list-style-type: none"> PROFINET from GSD version/GSD revision 	GSDML V2.34
Operating mode	
<ul style="list-style-type: none"> IO-Link 	Yes
<ul style="list-style-type: none"> DI 	Yes
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Rated value 	1 A; 4 A total current per module
24 V encoder supply	
<ul style="list-style-type: none"> Short-circuit protection 	Yes; per channel, electronic
Power	
Power consumption from the backplane bus	1.1 W
IO-Link	
Number of ports	8
<ul style="list-style-type: none"> 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	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	EMV
--------------------------	-----



Test Certificates	other	Environment
-------------------	-------	-------------

[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Confirmation](#)



[Environmental Confirmations](#)



last modified:

10/23/2025