## **SIEMENS**

## **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	FS01
Firmware version	V1.0.0
<ul> <li>FW update possible</li> </ul>	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V15.1 with HSP 274
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	Configurable via GSD file
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	GSD as of Revision 5
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.34
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
power supply according to NEC Class 2 required	No
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
<ul> <li>of which simultaneously controllable</li> </ul>	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
Operating modes	
• IO-Link	Yes
• DI	Yes
• DQ	No
Time Based IO	
— TIO IO-Link IN	No
— TIO IO-Link OUT	No
— TIO IO-Link IN/OUT	No
Connection of IO-Link devices	
<ul><li>Port type A</li></ul>	Yes
<ul> <li>Port type B</li> </ul>	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
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	1000
Ambient temperature during operation	
• horizontal installation, min.	0 °C
horizontal installation, max.	60 °C; Observe derating
vertical installation, min.	0 °C
vertical installation, max.	40 °C; Observe derating
Altitude during operation relating to sea level	3, obodito dordaning
Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	5 555 m, restrictions for installation attitudes 2 5 500 m, see manual
Width	35 mm
	147 mm
Height	
Depth	129 mm

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