SIEMENS

Data sheet

6ES7137-6BD00-0BA0



SIMATIC ET 200SP, CM 4xIO-Link ST Communication module IO-Link Master V1.1

Cancar Information CM 4 x IO-Link ST		
HW functional status FS20 Firmware version V2.2.2 Firmware version V2.2.2 Septiment version V2.2.2 Septiment version V2.2.2 Septiment version V2.2.2 Usable BaseUnits BU type A0 Color code for module-specific color identification plate CC04 Forduct function IsM data Yes; I8M0 to I8M3 Septiment version V8; I8M0 to I8M3 STEP 7 TIA Portal configurable/integrated from version FROF/IRDIS from GSD version/GSD revision V8; IFEP 7 V.15 or higher FROF/IRDIS from GSD version/GSD revision PROF/IRDIS from GSD version/GSD revision FROF/IRDIS from GSD version/GSD revision V8; IFEP 7 V.5.5 or higher FROF/IRDIS from GSD version/GSD revision V8; IFEP 7 V.5.5 or higher FROF/IRDIS from GSD version/GSD revision V8; IFEP 7 V.5.5 or higher FROF/IRDIS from GSD version/GSD revision V8; IFEP 7 V.5.5 or higher FROF/IRDIS from GSD version/GSD revision V8; IFEP 7 V.5.5 or higher FROF/IRDIS from GSD version/GSD revision FROF/IRDIS f	General information	
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### SPW update possible ### Usable BaseUnits ### BU type A0 CC04 CC04 CC04 CC04 CC04 Product function ### Ala data Seischronous mode No; Only for PROFINET and configuration as version with FW V2.0 or V2.1 ### Ala data Isochronous mode No; Only for PROFINET and configuration as version with FW V2.0 or V2.1 ### Engineering with ### STEP 7 TIA Portal configurable/integrated from version STEP 7 TO configurable/integrated from version STEP 7 V15 or higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher ### PROFINET from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher	HW functional status	FS20
usable BaseUnits BU type A0 Color code for module-specific color identification plate Product function • I&M data • Isochronous mode No, Only for PROFINET and configuration as version with FW V2.0 or V2.1 Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 configurable/integrated from version • PROFINET from GSD version/GSD revision • STEP 7 V15 or higher •	Firmware version	V2.2.2
Color code for module-specific color identification plate Product function I I&M data I Standard I Standard I Step 7 this Portal configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUS from GSD revision from	FW update possible	Yes
Product function • I&M data	usable BaseUnits	BU type A0
• I&M data • Isochronous mode • Isochronous mode • Isochronous mode • Isochronous mode • STEP 7 TIA Portal configurable/integrated from version • STEP 7 TIA Portal configurable/integrated from version • STEP 7 TIA Portal configurable/integrated from version • PROFIBUS from GSD version/GSD revision • PROFIBUS from GSD version/GSD revision • PROFINET from GSD version/GSD revision • STEP 7 V15 or higher	Color code for module-specific color identification plate	CC04
No; Only for PROFINET and configuration as version with FW V2.0 or V2.1 Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 too higher STEP 7 too flighted from version STEP 7 v5.5 or higher PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) power supply according to NEC Class 2 required No Input current Current consumption, max. 45 mA; without load Encoder supply Number of outputs A Quiput current Rated value 700 mA; Per channel 24 V encoder supply Short-circuit protection Output current, max. 21 A Power loss, tp. Hu W Hardware configuration Automatic encoding Yes Electronic coding element type H Yes Digital outputs Cable length unshelded, max. 20 m; Also applies for shielded cables IO-Link Inshelded VI (SI) or higher STEP 7 V15 or higher One GSD file each, Revision 3 and 5 and higher GEMBLE STEP 7 v65 or higher STEP 7 V5.5 or higher One GSD file each, Revision 3 and 5 and higher GSDML V2.3 STEP 7 V5.5 or higher One GSD file each, Revision 3 and 5 and higher GSDML V2.3 STEP 7 V5.5 or higher One GSD file each, Revision 3 and 5 and higher GSDML V2.3 STEP 7 V5.5 or higher One GSD file each, Revision 3 and 5 and higher GSDML V2.3 STEP 7 V5.5 or higher One GSD file each, Revision 3 and 5 and higher GSDML V2.3 SDML V2.3 SUPL V2.4 Very Supplied of Supplied or Inchesting A supplied or Inchesting A supplied or Inchesting A supplied or Inchesting A supplied	Product function	
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PROFINET from GSD version/GSD revision Supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V; 20.5 V if IO-Link is used, as the supply voltage for IO-Link devices has to be at least 20 V at the master. permissible range, upper limit (DC) 28.8 V power supply according to NEC Class 2 required No Input current Current consumption, max. 45 mA; without load Encoder supply Number of outputs 4 Output current Rated value 700 mA; Per channel 24 V encoder supply Short-circuit protection Yes Output current, max. 2.1 A Power loss, typ. 1 W Hardware configuration Automatic encoding Yes Electronic coding element type H Yes Digital outputs Cable length unshielded, max. 20 m; Also applies for shielded cables IO-Link	 STEP 7 configurable/integrated from version 	STEP 7 V5.5 or higher
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Input current Current consumption, max. 45 mA; without load Encoder supply Number of outputs 4 Output current • Rated value 700 mA; Per channel 24 V encoder supply • Short-circuit protection Yes • Output current, max. 2.1 A Power loss Power loss, typ. 1 W Hardware configuration Automatic encoding Yes • Electronic coding element type H Yes Digital outputs Cable length • unshielded, max. 20 m; Also applies for shielded cables IO-Link	permissible range, upper limit (DC)	28.8 V
Current consumption, max. Encoder supply Number of outputs Output current • Rated value 700 mA; Per channel 24 V encoder supply • Short-circuit protection • Output current, max. 2.1 A Power loss Power loss Power loss, typ. Automatic encoding • Electronic coding element type H Digital outputs Cable length • unshielded, max. 20 m; Also applies for shielded cables IO-Link	power supply according to NEC Class 2 required	No
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Number of outputs Output current Rated value 700 mA; Per channel 24 V encoder supply Short-circuit protection Output current, max. 2.1 A Power loss Power loss, typ. 1 W Hardware configuration Automatic encoding Electronic coding element type H Yes Digital outputs Cable length unshielded, max. 20 m; Also applies for shielded cables IO-Link	Current consumption, max.	45 mA; without load
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Output current, max. 2.1 A Power loss Power loss, typ. 1 W Hardware configuration Automatic encoding Electronic coding element type H Yes Digital outputs Cable length unshielded, max. 2.1 A 2.1 A 2.1 A Power loss, typ. 1 W Automatic encoding Yes Yes Output S Automatic encoding Yes Yes Output S Automatic encoding Yes Yes Output S Outpu	24 V encoder supply	
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Hardware configuration Automatic encoding Yes Electronic coding element type H Yes Digital outputs Cable length unshielded, max. 20 m; Also applies for shielded cables	Power loss	
Hardware configuration Automatic encoding • Electronic coding element type H Digital outputs Cable length • unshielded, max. 20 m; Also applies for shielded cables	Power loss, typ.	1 W
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Digital outputs Cable length ● unshielded, max. 20 m; Also applies for shielded cables IO-Link	_	Yes
Cable length • unshielded, max. 20 m; Also applies for shielded cables IO-Link		
unshielded, max. 20 m; Also applies for shielded cables IO-Link		
IO-Link		20 m; Also applies for shielded cables
Number of ports 4		
	Number of ports	4

 of which simultaneously controllable 	A
-	4
IO-Link protocol 1.0	Yes
IO-Link protocol 1.1	Yes
Transmission rate	4.8 kBaud (COM1); 38.4 kBaud (COM2), 230.4 kBaud (COM3)
Cycle time, min.	2 ms; dynamic, depending on user data length
Size of process data, input per port	32 byte; max.
Size of process data, input per module	144 byte; max.
Size of process data, output per port	32 byte; max.
Size of process data, output per module	128 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	Yes; max. 100 mA per channel
Time Based IO	
— TIO IO-Link IN	No; Only for PROFINET and configuration as version with FW V2.0 or V2.1
— TIO IO-Link OUT	No; Only for PROFINET and configuration as version with FW V2.0 or V2.1
— TIO IO-Link IN/OUT	No; Only for PROFINET and configuration as version with FW V2.0 or V2.1
Connection of IO-Link devices	Tro, only for the fire transfer and configuration as voicion want vives of very
Port type A	Yes
Port type B	Yes; 24 V DC via external terminal
via three-wire connection	Yes
Interrupts/diagnostics/status information	165
Alarms	Voc: The part diagnosis is available in the IO Link made only
Diagnostic alarm	Yes; The port diagnosis is available in the IO-Link mode only.
Diagnoses	W
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 PWR LED
Channel status display	
Channel status display	Yes; one green LED for channel status Qn (SIO mode) and port status Cn (IO- Link mode) per channel
Gnannel status display for channel diagnostics	
	Link mode) per channel
• for channel diagnostics	Link mode) per channel Yes; red Fn LED
for channel diagnostics for module diagnostics	Link mode) per channel Yes; red Fn LED
for channel diagnostics for module diagnostics Potential separation	Link mode) per channel Yes; red Fn LED
for channel diagnostics for module diagnostics Potential separation Potential separation channels	Link mode) per channel Yes; red Fn LED Yes; green/red DIAG LED
for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels	Link mode) per channel Yes; red Fn LED Yes; green/red DIAG LED No
for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels between the channels and backplane bus between the channels and the power supply of the	Link mode) per channel Yes; red Fn LED Yes; green/red DIAG LED No Yes
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for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels between the channels and backplane bus between the channels and the power supply of the electronics Isolation Isolation tested with	Link mode) per channel Yes; red Fn LED Yes; green/red DIAG LED No Yes No
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