

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

3RK7243-2AA30-0XB0

AS-INTERFACE MASTER COMMUNICATION MODULE

Used with the applicable SIMATIC S7-1200 CM 1243-2 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens SIMATIC S7-1200 CM 1243-2 technical documentation

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CM 1243-2 (AS-I V3.0)

Technical data



SIMATIC S7-1200, CM 1243-2 communication module AS-Interface master according to AS-i specification V3.0

General technical data		
Product designation		AS-Interface Master
Product type designation		CM 1243-2
Protection class IP		IP20
Type of electrical connection of the AS-Interface		Screw-type connection
Type of voltage supply		via backplane bus
Operating condition separate power supply 24 V		No
Consumed current		
• from profile conductors of the AS-Interface		
— at 30 V maximum	mA	100
• from backplane bus maximum	mA	250
Power loss [W]	W	2.9
Insulation voltage rated value	V	500
Product function suitable for AS-i Power24V		Yes
• Note		All product versions
Product feature redundancy capability		No
Product function		
• web-based management		No
• Diagnostics via email		No
• Galvanic isolation		Yes
Display version		
• as status display by LED		AS-i, PF, CM, CER, DIAG
Type of configuration of the AS-Interface		With STEP 7, command interface
Communication/ Protocol		
Version of the AS-Interface specification		V 3.0
AS-Interface master profile is supported		M4 (in acc. with AS-interface specification V 3.0)
Type of data transmission		S7-1200 backplane bus
Number of units per CPU maximum		3
Number of units per CPU maximum Note		Max. 3 communication modules in total (CM /CP)
Number of interfaces		
• as AS-Interface		1
• acc. to RS 485		0
• acc. to Industrial Ethernet		0
• acc. to PROFINET		0
• acc. to wireless		0
• acc. to USB		0
• other		0
Product component optical interface		No
Protocol is supported		
• ASIsafe (Safety at work) protocol		No
• PROFIsafe protocol		No
• PROFIBUS protocol		No
• PROFINET IO protocol		No
• PROFINET CBA protocol		No
• TCP/IP		No
• SNMP		No
Standard for wireless communication IEEE 802.11		No
Inputs/ Outputs		
Number of inputs for AS Interface maximum		496
Number of outputs for AS Interface maximum		496
Number of AS-i slaves per AS-Interface maximum		62
Bus cycle time of the AS-Interface		
• for 31 slaves	ms	5
• for 62 slaves	ms	10
Access to digital I/O data		via process image/peripheral addresses

Access to analog I/O data		via process diagram/peripheral addresses and data record transfer
Mechanical data		
Width	mm	30
Height	mm	100
Depth	mm	75
Mounting type	snap-on fastening on 35 mm standard rail	
Module format	S7-1200 design	

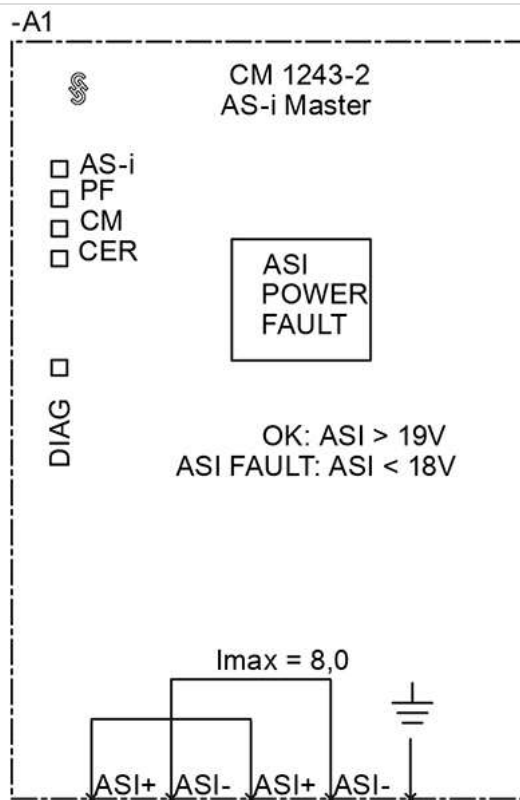
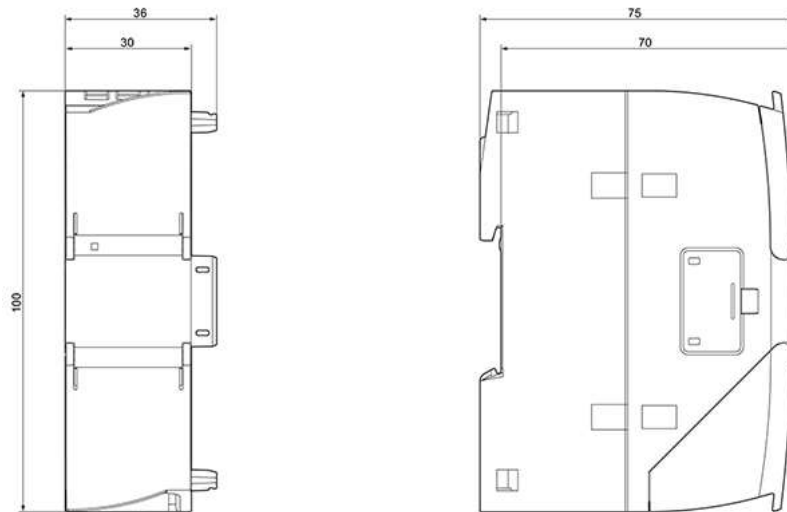
Ambient conditions		
Ambient temperature • if installed on horizontal mounting rail • if installed on vertical mounting rail during operation • during transport • during storage	°C	0 ... 55
	°C	0 ... 45
	°C	-40 ... +70
	°C	-40 ... +70
Relative humidity at 25 °C during operation maximum	%	95
Installation altitude at height above sea level maximum	m	2 000

Safety related data		
Suitability for use safety-related function		No
Explosion protection marking for intrinsic safety of related equipment • EEx ia • EEx ib		
		No
		No
Explosion protection category for gas		none
Explosion protection category for dust		none

Certificates/ approvals		
General Product Approval		EMC
FM		
		
		Explosion Protection Certificate
		 ATEX-EC-Type-Examination-Certificate

For use in hazardous locations	Declaration of Conformity		Shipping Approval	other
	 EC/EU-Declaration of Conformity	Miscellaneous	NK / Nippon Kaiji Kyokai	Confirmation

Further information	
Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK7243-2AA30-0XB0	
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK7243-2AA30-0XB0	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK7243-2AA30-0XB0	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK7243-2AA30-0XB0&lang=en	



last modified:

11/09/2020

Last changes: 11/09/2020