



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
consumed current		
<ul style="list-style-type: none"> <li>from profile conductors of the AS-Interface                             <ul style="list-style-type: none"> <li>— at 30 V maximum</li> </ul> </li> </ul>	mA	100
<ul style="list-style-type: none"> <li>from backplane bus maximum</li> </ul>	mA	250
power loss [W]	W	2.9
insulation voltage rated value	V	500
product feature redundancy capability		No
product function suitable for AS-i Power24V		Yes
<ul style="list-style-type: none"> <li>note</li> </ul>		All product versions
product function		
<ul style="list-style-type: none"> <li>web-based management</li> </ul>		No
<ul style="list-style-type: none"> <li>diagnostics via email</li> </ul>		No
<ul style="list-style-type: none"> <li>galvanic isolation</li> </ul>		Yes
display version		
<ul style="list-style-type: none"> <li>as status display by LED</li> </ul>		AS-i, PF, CM, CER, DIAG
type of configuration of the AS-Interface		With STEP7, 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		
<ul style="list-style-type: none"> <li>as AS-Interface</li> </ul>		1
<ul style="list-style-type: none"> <li>according to RS 485</li> </ul>		0
<ul style="list-style-type: none"> <li>according to Industrial Ethernet</li> </ul>		0
<ul style="list-style-type: none"> <li>according to PROFINET</li> </ul>		0
<ul style="list-style-type: none"> <li>according to wireless</li> </ul>		0
<ul style="list-style-type: none"> <li>according to USB</li> </ul>		0
<ul style="list-style-type: none"> <li>other</li> </ul>		0
product component optical interface		No
protocol is supported		
<ul style="list-style-type: none"> <li>ASIsafe (Safety at work) protocol</li> </ul>		No
<ul style="list-style-type: none"> <li>PROFIsafe protocol</li> </ul>		No

• PROFIBUS protocol		No
• PROFINET IO protocol		No
• PROFINET CBA protocol		No
• TCP/IP		No
• SNMP		No
<b>standard for wireless communication IEEE 802.11</b>		No

Inputs/ Outputs		
<b>number of inputs for AS-Interface maximum</b>		496
<b>number of outputs for AS-Interface maximum</b>		496
<b>number of AS-i slaves per AS-Interface maximum</b>		62
<b>bus cycle time of the AS-Interface</b>		
• for 31 slaves	ms	5
• for 62 slaves	ms	10
<b>access to digital I/O data</b>		via process image/peripheral addresses
<b>access to analog I/O data</b>		via process diagram/peripheral addresses and data record transfer

Mechanical data		
<b>width</b>	mm	30
<b>height</b>	mm	100
<b>depth</b>	mm	75
<b>fastening method</b>		snap-on fastening on 35 mm DIN rail
<b>module format</b>		S7-1200 design

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

Safety related data		
<b>suitability for use safety-related function</b>		No
<b>explosion protection marking for intrinsic safety of related equipment</b>		
• EEx ia		No
• EEx ib		No
<b>explosion protection category for gas</b>		II 3 G Ex ec IIC T4 Gc
<b>explosion protection category for dust</b>		none

Certificates/ approvals	EMV	For use in hazardous locations
General Product Approval		



[FM](#)



For use in hazardous locations	Test Certificates	Maritime application
 <p><a href="#">Miscellaneous</a></p>	 <p><a href="#">Special Test Certificate</a></p>	



[Miscellaneous](#)



IECEX



UL

[Special Test Certificate](#)



DNV

other	Environment
 <p><a href="#">Confirmation</a></p>	<p><a href="#">Environmental Confirmations</a></p>



[Confirmation](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

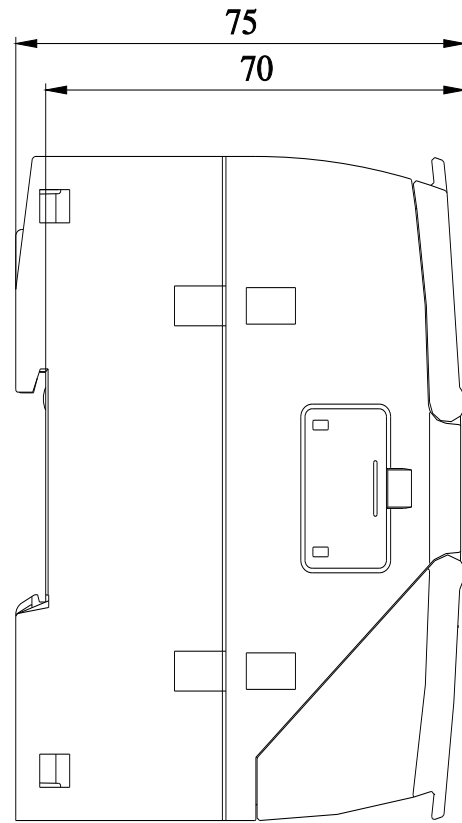
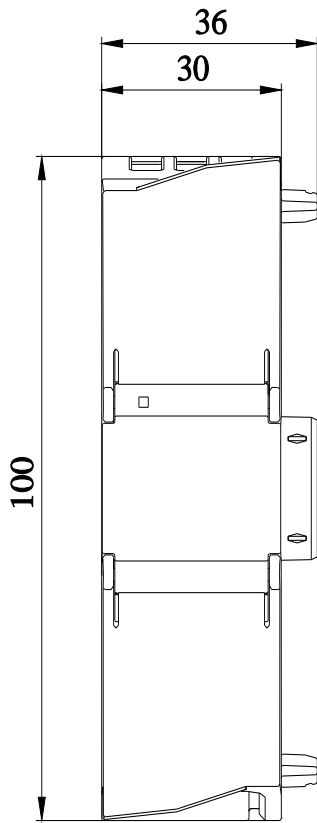
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK7243-2AA30-0XB0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

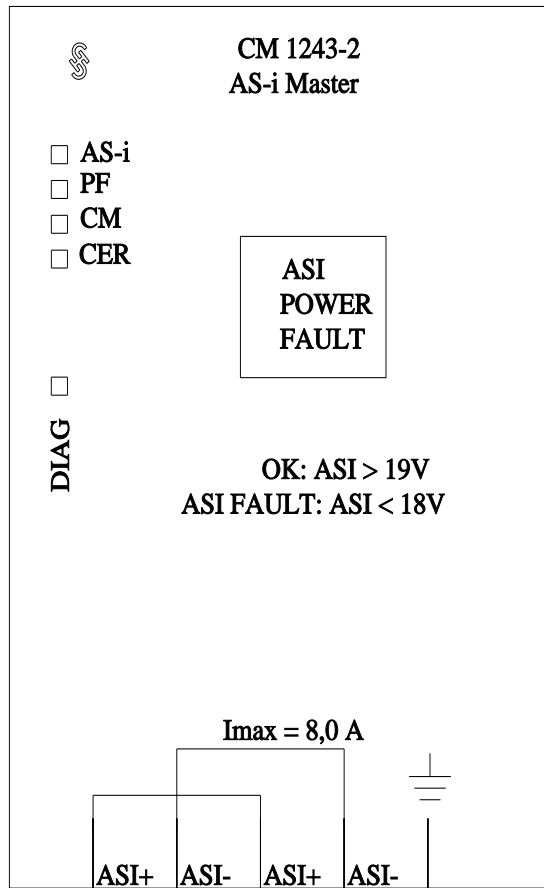
<https://support.industry.siemens.com/cs/ww/en/ps/3RK7243-2AA30-0XB0>

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](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK7243-2AA30-0XB0&lang=en)



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