

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



General technical data:

<b>Product designation</b>		AS-Interface Master
<b>Product type designation</b>		CM 1243-2
<b>Protection class IP</b>		IP20
<b>Type of electrical connection of the AS-Interface</b>		Screw-type connection
<b>Type of voltage supply</b>		via backplane bus
<b>Operating condition separate power supply 24 V</b>		No
<b>Consumed current</b>		
<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
<b>Power loss [W]</b>	W	2.9
<b>Insulation voltage rated value</b>	V	500
<b>Product function suitable for AS-i Power24V</b>		Yes
<ul style="list-style-type: none"> <li>Note</li> </ul>		All product versions
<b>Product feature redundancy capability</b>		No
<b>Product function</b>		
<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

• Galvanic isolation		Yes
<b>Display version</b>		
• as status display by LED		AS-i, PF, CM, CER, DIAG
<b>Type of configuration of the AS-Interface</b>		With STEP 7, command interface

#### Communication/ Protocol:

<b>Version of the AS-Interface specification</b>		V 3.0
<b>AS-Interface master profile is supported</b>		M4 (in acc. with AS-interface specification V 3.0)
<b>Type of data transmission</b>		S7-1200 backplane bus
<b>Number of units per CPU maximum</b>		3
<b>Number of units per CPU maximum Note</b>		Max. 3 communication modules in total (CM /CP)
<b>Number of interfaces</b>		
• 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
<b>Product component optical interface</b>		No
<b>Protocol is supported</b>		
• 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
<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

Depth	mm	75
Mounting type		snap-on fastening on 35 mm standard rail
Module format		S7-1200 design





#### Ambient conditions:



<b>Ambient temperature</b>		
• if installed on horizontal mounting rail	°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>		none
<b>Explosion protection category for dust</b>		none

#### Certificates/ approvals:

General Product Approval	EMC	For use in hazardous locations
<a href="#">FM</a>  UL	 EAC  RCM	<a href="#">Explosion Protection Certificate</a>  ATEX

Declaration of Conformity	Shipping Approval	other
 EG-Konf.	<a href="#">Miscellaneous</a> <a href="#">NK / Nippon Kaiji Kyokai</a>	 ASI <a href="#">Confirmation</a>

#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

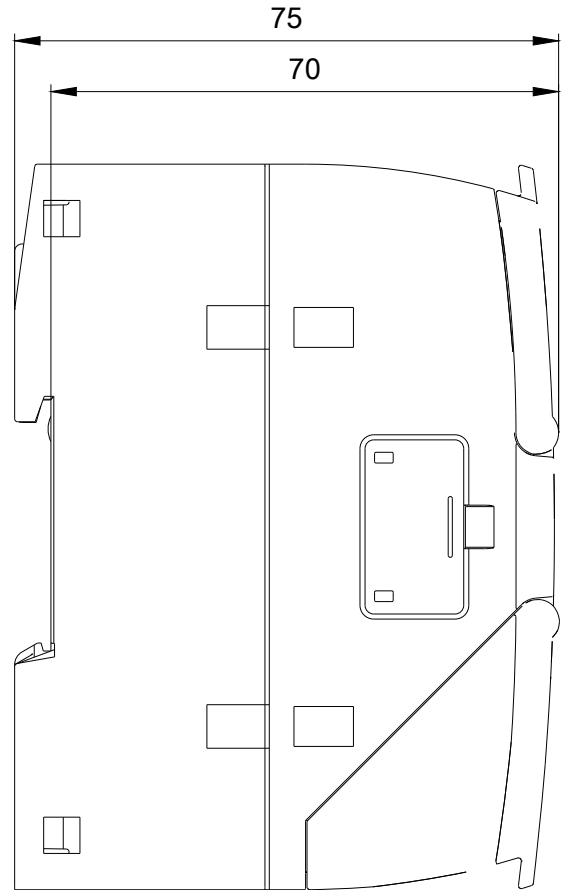
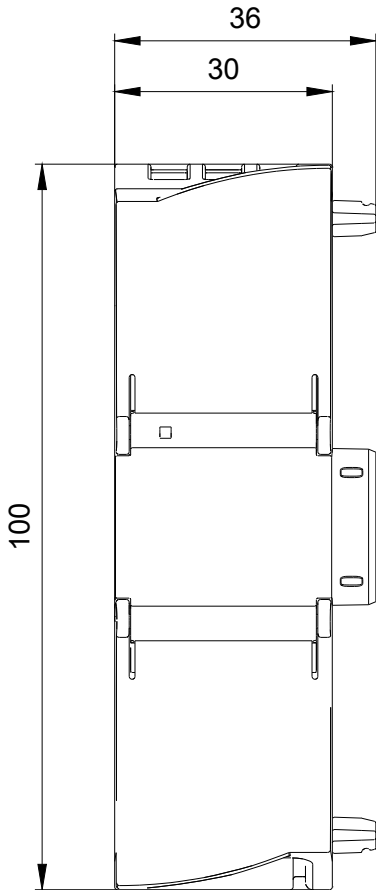
<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

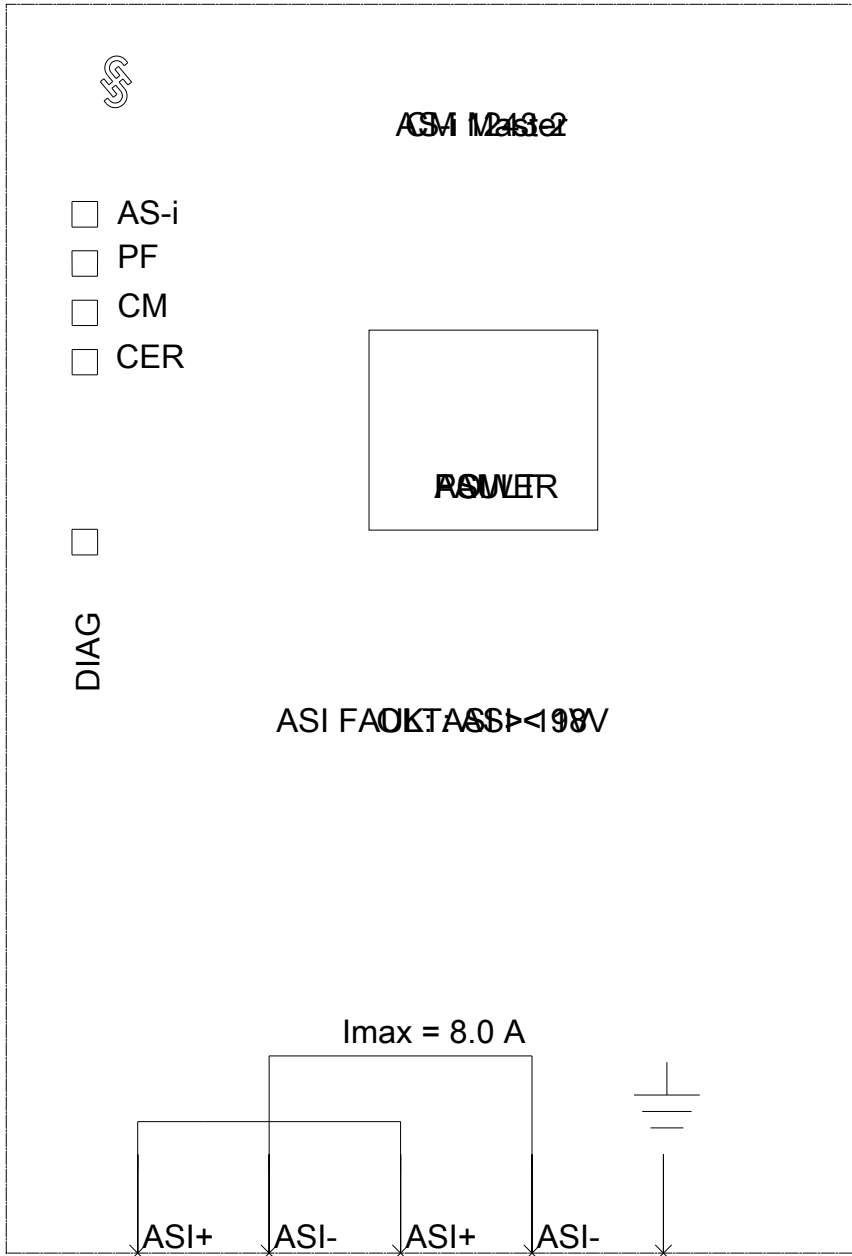
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##### Cax online generator

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