

SIMATIC S7-1200, CM 1243-2, COMMUNICATION  
MODULE AS-INTERFACE MASTER ACCOR. AS-  
INTERFACE SPEC. V3.0



Figure similar

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		
<ul style="list-style-type: none"> <li>from profile conductors of the AS-interface</li> </ul>	mA	100
<ul style="list-style-type: none"> <li>— at 30 V maximum</li> </ul>		
<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 function suitable for AS-i Power24V		Yes
<ul style="list-style-type: none"> <li>Note</li> </ul>		All product versions
Product feature redundancy capability		No
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
<b>Display version</b>		
<ul style="list-style-type: none"> <li>• as status display by LED</li> </ul>		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>		1
<b>Number of interfaces</b>		
<ul style="list-style-type: none"> <li>• as AS-interface</li> </ul>		1
<ul style="list-style-type: none"> <li>• acc. to RS 485</li> </ul>		0
<ul style="list-style-type: none"> <li>• acc. to Industrial Ethernet</li> </ul>		0
<ul style="list-style-type: none"> <li>• acc. to PROFINET</li> </ul>		0
<ul style="list-style-type: none"> <li>• acc. to wireless</li> </ul>		0
<ul style="list-style-type: none"> <li>• acc. to USB</li> </ul>		0
<ul style="list-style-type: none"> <li>• other</li> </ul>		0
<b>Product component optical interface</b>		No
<b>Protocol is supported</b>		
<ul style="list-style-type: none"> <li>• ASIsafe (Safety at work) protocol</li> </ul>		No
<ul style="list-style-type: none"> <li>• PROFI-safe protocol</li> </ul>		No
<ul style="list-style-type: none"> <li>• PROFIBUS protocol</li> </ul>		No
<ul style="list-style-type: none"> <li>• PROFINET IO protocol</li> </ul>		No
<ul style="list-style-type: none"> <li>• PROFINET CBA protocol</li> </ul>		No
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>		No
<ul style="list-style-type: none"> <li>• SNMP</li> </ul>		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>		
<ul style="list-style-type: none"> <li>• for 31 slaves</li> </ul>	ms	5
<ul style="list-style-type: none"> <li>• for 62 slaves</li> </ul>	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
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Height	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	For use in hazardous locations	Declaration of Conformity
<p><a href="#">FM</a></p>  	<p><a href="#">Explosionsschutzzertifikat</a></p> 	 <p>EG-Konf.</p>
Shipping Approval	other	
 <p>GL</p>	<p><a href="#">NK / Nippon Kaiji Kyokai</a></p>  <p>ASi</p>	<p><a href="#">Bestätigungen</a></p> <p><a href="#">Umweltbestätigung</a></p>

#### Further information

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

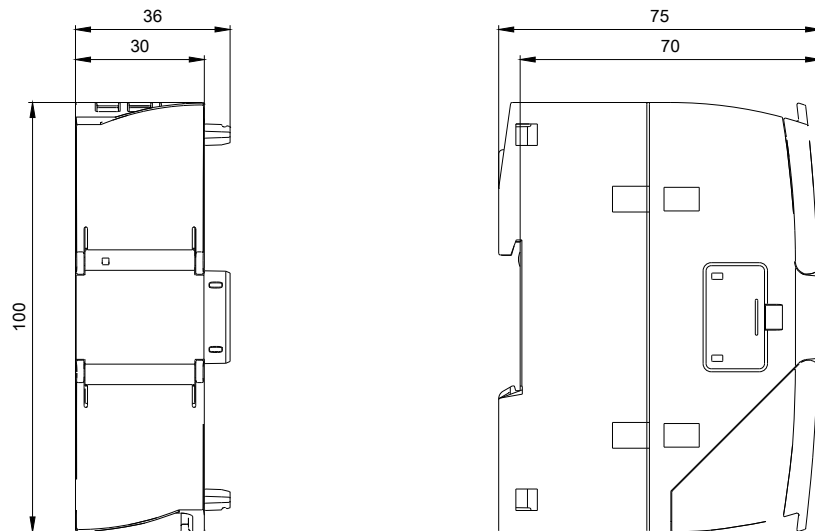
<http://www.siemens.com/industrial-controls/catalogs>

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

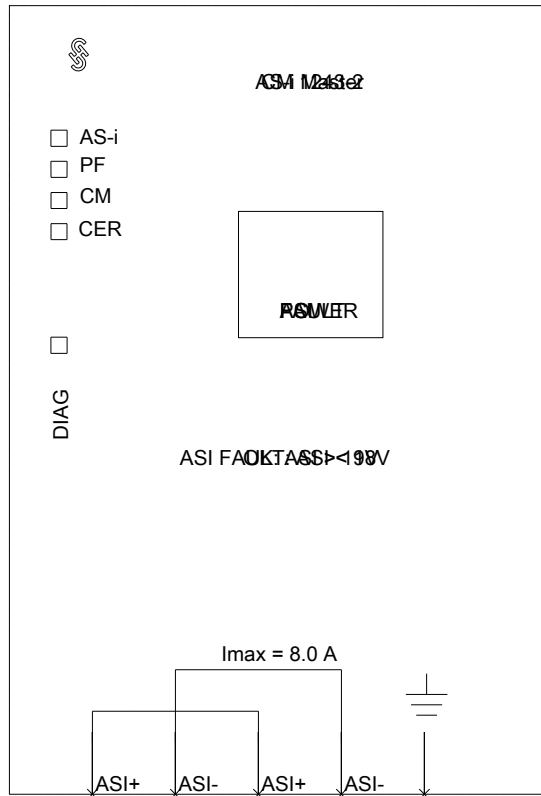
<http://www.siemens.com/industrymall>

##### Cax online generator

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



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