



SIMATIC ET 200SP communications module CM AS-i Master ST according to AS-Interface specification V3.0

General technical data		
product designation		CM AS-i Master ST
product type designation		ET 200SP
protection class IP		IP20
type of electrical connection of the AS-Interface		ET 200SP BaseUnit (Type C0), 20 mm
type of voltage supply		Via AS-i and backplane bus
consumed current		
• from profile conductors of the AS-Interface		
— at 30 V maximum	mA	70
— at 24 V with AS-i Power24V maximum	mA	70
• from backplane bus maximum	mA	5
power loss [W]	W	1.7
insulation voltage rated value	V	500
product feature redundancy capability		Yes
• note		From firmware V1.1.0, PROFINET system redundancy S2, in conjunction with IM 155-6 PN HF / IM 155-6 MF HF. From firmware V1.1.11, PROFINET system redundancy R1, in conjunction with IM 155-6 PN R1.
product function suitable for AS-i Power24V		Yes
• note		All product versions
product function suitable for operation on PROFINET R1 IMs		Yes
• note		From firmware V1.1.11, PROFINET system redundancy R1, in conjunction with IM 155-6 PN R1.
product function		
• web-based management		No
• diagnostics via email		No
• galvanic isolation		Yes
display version		
• as status display by LED		DIAG, AS-i OK, AS-i FAULT, PF, CER, CM, AUP, PWR, SL_Xy (A), SL_xY (B)
type of configuration of the AS-Interface		SET pushbutton (optional) on the device, STEP 7, GSD, 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		ET 200SP backplane bus
number of interfaces		
• as AS-Interface		1
• according to RS 485		0
• according to Industrial Ethernet		0

<ul style="list-style-type: none"> • according to PROFINET • according to wireless • according to USB • other 		0
product component optical interface		No
protocol is supported		
<ul style="list-style-type: none"> • ASIsafe (Safety at work) protocol • PROFIsafe protocol • PROFIBUS protocol • PROFINET IO protocol • PROFINET CBA protocol • TCP/IP • 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 devices per AS-Interface maximum		62
bus cycle time of the AS-Interface		
<ul style="list-style-type: none"> • for 31 devices • for 62 devices 	ms	5
	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	20
height	mm	69.2
depth	mm	53.6
fastening method		pluggable in BaseUnit
module format		IP20

Ambient conditions

ambient temperature		
<ul style="list-style-type: none"> • if installed on horizontal mounting rail during operation • if installed on vertical mounting rail during operation • during transport • during storage 	°C	-25 ... +60
	°C	-25 ... +50
	°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		
<ul style="list-style-type: none"> • EEx ia • EEx ib 		No
		No
explosion protection category for gas		II 3 G Ex ec IIC T4 Gc
explosion protection category for dust		none

Certificates/ approvals

General Product Approval	EMV	For use in hazardous locations
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[EM](#)



[CCC-Ex](#)

For use in hazardous locations	Test Certificates	Maritime application	other
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Miscellaneous



Special Test Certificate



other	Environment	Industrial Communication
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[Confirmation](#)

[Environmental Confirmations](#)



Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RK7137-6SA00-0BC1>

Cax online generator

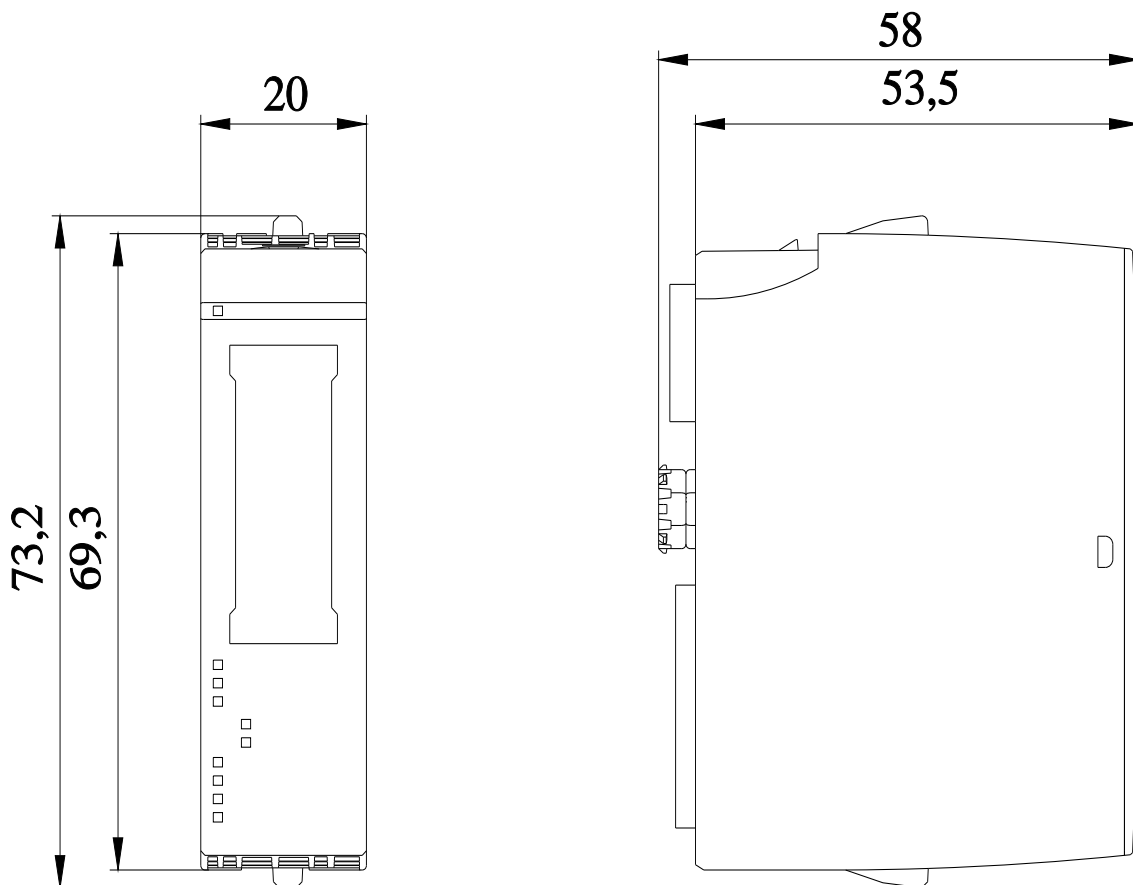
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK7137-6SA00-0BC1>

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

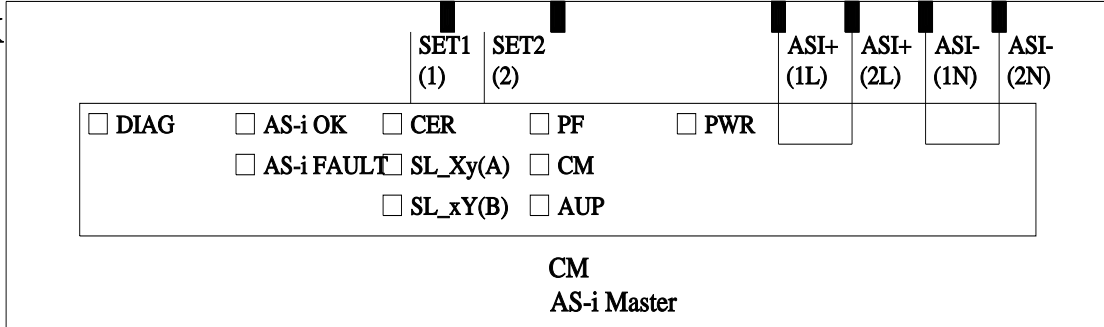
<https://support.industry.siemens.com/cs/ww/en/ps/3RK7137-6SA00-0BC1>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK7137-6SA00-0BC1&lang=en



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