



SIMATIC NET, CP 343-2 Communications processor for Connection of SIMATIC S7-300 and ET 200M to AS-Interface according to AS-Interface Specification V3.0

General technical data

product designation		AS-Interface Master
product type designation		CP 343-2 (AS-i V 3.0)
protection class IP		IP20
type of electrical connection of the AS-Interface		S7-300, front connector, 20-pin
type of voltage supply		via backplane bus
consumed current		
• from profile conductors of the AS-Interface — at 30 V maximum	mA	100
• from backplane bus maximum	mA	200
power loss [W]	W	4
insulation voltage rated value	V	500
product feature redundancy capability		Yes
• note		in connection with redundant IM153
product function suitable for AS-i Power24V		Yes
• note		from product status 2 / firmware V3.1
product function		
• web-based management		No
• diagnostics via email		No
• galvanic isolation		Yes
display version		
• as status display by LED		RUN, APF, CER, AUP, CM, SF
type of configuration of the AS-Interface		Set pushbutton on device, 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		S7-300 / ET 200M backplane bus
number of units per CPU maximum note		Limited only by current draw from backplane bus
number of interfaces		
• as AS-Interface		1
• according to RS 485		0
• according to Industrial Ethernet		0
• according to PROFINET		0
• according to wireless		0
• according to USB		0
• other		0
product component optical interface		No
protocol is supported		
• ASIsafe (Safety at work) protocol		No

• PROFI-safe 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 devices per AS-Interface maximum		62
bus cycle time of the AS-Interface		
• for 31 devices	ms	5
• for 62 devices	ms	10
access to digital I/O data		via process image/peripheral addresses
access to analog I/O data		via data record transfer

Mechanical data

width	mm	40
height	mm	125
depth	mm	120
fastening method		S7 mounting rail
module format		S7-300 modular system

Ambient conditions

ambient temperature		
• if installed on horizontal mounting rail during operation	°C	0 ... 60
• if installed on vertical mounting rail during operation	°C	0 ... 40
• during transport	°C	-40 ... +70
• during storage	°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		No
• EEx ib		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
--------------------------	-----

[EM](#)



For use in hazardous locations

Test Certificates

[CCC-Ex](#)



[Miscellaneous](#)



[Special Test Certificate](#)

Maritime application

other

Environment



[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=6GK7343-2AH01-0XA0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6GK7343-2AH01-0XA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/6GK7343-2AH01-0XA0>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=6GK7343-2AH01-0XA0&lang=en

last modified:

4/1/2025 