



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                                  |
| operating condition separate power supply 24 V    |    | No                                                 |
| 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 function suitable for AS-i Power24V       |    | Yes                                                |
| • note                                            |    | from product status 2 / firmware V3.1              |
| product feature redundancy capability             |    | Yes                                                |
| • note                                            |    | in connection with redundant IM153                 |
| 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                                                 |

|                                                                                                                                             |  |    |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| <ul style="list-style-type: none"> <li>• PROFINET IO protocol</li> <li>• PROFINET CBA protocol</li> <li>• TCP/IP</li> <li>• SNMP</li> </ul> |  | 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 slaves per AS-Interface maximum                                             |    | 62                                     |
| bus cycle time of the AS-Interface                                                         |    |                                        |
| <ul style="list-style-type: none"> <li>• for 31 slaves</li> <li>• for 62 slaves</li> </ul> | ms | 5                                      |
|                                                                                            | 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                                                                                                                                                                                                   |    |             |
| <ul style="list-style-type: none"> <li>• if installed on horizontal mounting rail</li> <li>• if installed on vertical mounting rail during operation</li> <li>• during transport</li> <li>• during storage</li> </ul> | °C | 0 ... 60    |
|                                                                                                                                                                                                                       | °C | 0 ... 40    |
|                                                                                                                                                                                                                       | °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"> <li>• EEx ia</li> <li>• EEx ib</li> </ul> |  | No   |
|                                                                              |  | No   |
| explosion protection category for gas                                        |  | none |
| explosion protection category for dust                                       |  | none |

| Certificates/ approvals  |     |                                |
|--------------------------|-----|--------------------------------|
| General Product Approval | EMC | For use in hazardous locations |

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|                                |                   |       |
|--------------------------------|-------------------|-------|
| For use in hazardous locations | Marine / Shipping | other |
|--------------------------------|-------------------|-------|



[Confirmation](#)

## Further information

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

<http://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, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=6GK7343-2AH01-0XA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=6GK7343-2AH01-0XA0&lang=en)

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