# SIEMENS

**Data sheet**                                                          **6GK1415-2BA20**

SIMATIC NET, DP/AS-Interface Link advanced, Gateway PROFIBUS DP/AS-Interface with master profile M3, M4 according to AS-i specification V3.0 for integration in PROFIBUS DP, Double master with display, Degree of protection IP20

## General technical data

| | | |
|---|---|---|
| product designation | | PROFIBUS DP/AS-Interface Link |
| product type designation | | DP/AS-i LINK Advanced (double master) |
| protection class IP | | IP20 |
| type of electrical connection of the AS-Interface | | Screw-type connection |
| type of voltage supply | | via AS-i or external 24 V supply |
| supply voltage from optional external supply voltage at DC | V | 24 |
| consumed current | | |
| ● from profile conductors of the AS-Interface | | |
| — at 30 V maximum | mA | 250 |
| — at 24 V with AS-i Power24V maximum | mA | 250 |
| power loss [W] | W | 7.5 |
| insulation voltage rated value | V | 500 |
| product feature redundancy capability | | Yes |
| ● note | | in connection with Y-Link |
| product function suitable for AS-i Power24V | | Yes |
| ● note | | from product status 4 / firmware V2.2 |
| product function | | |
| ● web-based management | | Yes |
| ● diagnostics via email | | Yes |
| ● galvanic isolation | | Yes |
| display version | | |
| ● as status display by LED | | SF, BF, ON, APF, CER, AUP, CM |
| ● as status indication through display | | LCD display, full graphic, backlighting, 128 x 64 pixels |
| type of configuration of the AS-Interface | | Operator display, integrated web server, STEP7, 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 | | PROFIBUS |
| number of interfaces | | |
| ● as AS-Interface | | 2 |
| ● according to RS 485 | | 1 |
| ● according to Industrial Ethernet | | 1 |
| ● according to PROFINET | | 0 |
| ● according to wireless | | 0 |
| ● according to USB | | 0 |
| ● other | | 1 |
| product component optical interface | | No |

| protocol is supported | | | |
|---|---|---|---|
| ● ASIsafe (Safety at work) protocol | | No | |
| ● PROFIsafe protocol | | No | |
| ● PROFIBUS protocol | | Yes | |
| ● PROFINET IO protocol | | No | |
| ● PROFINET CBA protocol | | No | |
| ● TCP/IP | | Yes | |
| ● SNMP | | Yes | |
| 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 process diagram/peripheral addresses and data record transfer | |

## Mechanical data

| | | | |
|---|---|---|---|
| width | mm | 90 | |
| height | mm | 132 | |
| depth | mm | 88.5 | |
| fastening method | | snap-on fastening on 35 mm DIN rail | |
| module format | | IP20 | |

## Ambient conditions

| | | | |
|---|---|---|---|
| ambient temperature | | | |
| ● if installed on horizontal mounting rail during operation | °C | 0 ... 60 | |
| ● during transport | °C | -30 ... +70 | |
| ● during storage | °C | -30 ... +70 | |
| relative humidity at 25 °C during operation maximum | % | 95 | |
| installation altitude at height above sea level maximum | m | 3 000 | |

## 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 |
|---|---|
| CE EG-Konf.   FM   UL   EAC   RCM   KC | |

| For use in hazardous locations | Test Certificates |
|---|---|
| CQC   ATEX   IECEx   FM   UL | Special Test Certificate |

| other | Environment |
|---|---|
| | |

Confirmation          Environmental Con-
                      firmations

## 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=6GK1415-2BA20
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6GK1415-2BA20
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
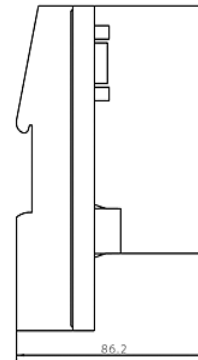https://support.industry.siemens.com/cs/ww/en/ps/6GK1415-2BA20
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=6GK1415-2BA20&lang=en
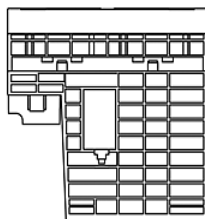
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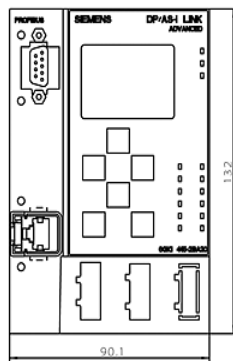
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