# SIEMENS

SIMATIC NET, IE/AS-INTERFACE LINK PN IO; GATEWAY INDUSTRIAL ETHERNET/ AS-INTERFACE WITH MASTER PROFILE M3, M4 ACC. TO EXTENDED AS-I SPEC. V3.0 FOR INTEGRATION IN PROFINET IO; DOUBLE MASTER WITH DISPLAY; DEGREE OF PROTECTION IP20. CONFIGURATION WITH STEP 7 TIA PORTAL IS POSSIBLE ONLY VIA GSD.

## General technical data:

| | | |
|---|---|---|
| Product designation | | PROFINET IO/AS-Interface Link |
| Product type designation | | IE/AS-i LINK PN IO (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 |
| Operating condition separate power supply 24 V | | No |
| 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 | 320 |
| — at 24 V with AS-i Power24V maximum | mA | 320 |
| Power loss [W] | W | 9.6 |
| Insulation voltage rated value | V | 500 |
| Product function suitable for AS-i Power24V | | No |
| • Note | | from product status 4 / firmware V2.2 |
| Product feature redundancy capability | | No |
| 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** | | PROFINET |
| **Number of interfaces** | | |
| • as AS-interface | | 2 |
| • acc. to RS 485 | | 0 |
| • acc. to Industrial Ethernet | | 2 |
| • acc. to PROFINET | | 2 |
| • acc. to wireless | | 0 |
| • acc. to USB | | 0 |
| • other | | 1 |
| **Product component optical interface** | | No |
| **Protocol is supported** | | |
| • ASIsafe (Safety at work) protocol | | No |
| • PROFIsafe protocol | | No |
| • PROFIBUS protocol | | No |
| • PROFINET IO protocol | | Yes |
| • 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 slaves per AS-Interface maximum** | | 62 |
| **Bus cycle time of the AS-interface** | | |
| • for 31 slaves | ms | 5 |
| • for 62 slaves | 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 |
| Mounting type | | snap-on fastening on 35 mm standard rail |
| Module format | | IP20 |

## Ambient conditions:

| | | |
|---|---|---|
| Ambient temperature | | |
| • if installed on horizontal mounting rail | °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 | | none |
| Explosion protection category for dust | | none |

## Certificates/ approvals:

| EMC | For use in hazardous locations | Declaration of Conformity | Shipping Approval |
|---|---|---|---|
| | ATEX | CE EG-Konf. | BUREAU VERITAS |

## 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**
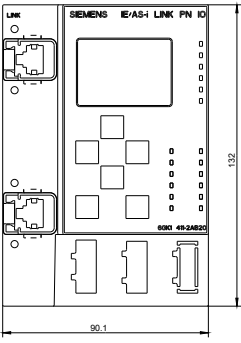http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6GK1411-2AB20

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
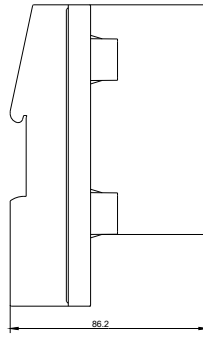https://support.industry.siemens.com/cs/ww/en/ps/6GK1411-2AB20

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
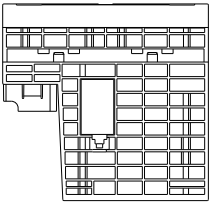http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=6GK1411-2AB20&lang=en

Vorne / Front

SIEMENS IE/AS-i LINK PN IO

LINK

6GK1 411-2AB20

132

90.1

Links / Left

86.2

Oben / Top

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