SIEMENS

## Data sheet 6GK1411-5BB00

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| **product type designation** | **IE/PB LINK HA** |



IE/PB LINK HA gateway between Ind. Ethernet and PROFIBUS, PROFINET IO proxy with real-time communication, system redundancy S2; H-CiR, time synch. via SIMATIC processes, NTP, SNMP V1, LLDP, S7 routing, data set routing, connection of up to 125 S7/DPV0/DPV1 devices (64 for S2 operation), support of DP/PA link and DP/FF link, 10/100 Mbps Fast Ethernet, MRP, 9.6 Kbps to 12 Mbps Profibus, firmware loading via configuration tool, redundant power supply, conformal coating, external temperature -40 °C.. 70 °C

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| product brand name | SIMATIC NET |
| Technical Product Detail Page | https://i.siemens.com/1P6GK1411-5BB00 |
| suitability for operation | Gateway between Industrial Ethernet and PROFIBUS |
| **transfer rate** | |
| transfer rate | |
| ● at the 1st interface | 10 ... 100 Mbit/s |
| ● at the 2nd interface | 9.6 kbit/s ... 12 Mbit/s |
| **interfaces** | |
| number of electrical connections | |
| ● at the 1st interface / according to Industrial Ethernet | 2 |
| ● at the 2nd interface / according to PROFIBUS | 1 |
| ● for power supply | 2 |
| type of electrical connection | |
| ● at the 1st interface / according to Industrial Ethernet | RJ45 port onboard or SIMATIC BusAdapter |
| type of electrical connection | |
| ● at the 2nd interface / according to PROFIBUS | 9-pin Sub-D socket (RS 485) |
| ● for power supply | 4-pole terminal block |
| design of the removable storage | |
| ● C-PLUG | Yes |
| **supply voltage, current consumption, power loss** | |
| type of voltage / of the supply voltage | DC |
| supply voltage / external / at DC / rated value | 24 V |
| relative positive tolerance / at DC / at 24 V | 20 % |
| relative negative tolerance / at DC / at 24 V | 15 % |
| consumed current | |
| ● from external supply voltage / at DC / at 24 V / typical | 0.2 A |
| ● from external supply voltage / at DC / at 24 V / maximum | 0.3 A |
| power loss [W] | 4.8 W; typical 4.8 W, maximum 7.2 W |
| **ambient conditions** | |
| ambient temperature | |
| ● for vertical installation / during operation | -40 ... +50 °C |
| ● for horizontally arranged busbars / during operation | -40 ... +70 °C |
| ● during storage | -40 ... +70 °C |
| ● during transport | -40 ... +70 °C |
| ambient condition / relating to ambient temperature - air pressure - installation altitude | during operation max. 2 000 m above sea level at max. 60 °C ambient temperature |
| relative humidity | |
| ● at 25 °C / without condensation / during operation / | 95 % |


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| maximum | |
| protection class IP | IP20 |
| **design, dimensions and weights** | |
| module format | ET 200SP design |
| width | 100 mm |
| height | 117 mm |
| depth | 74 mm |
| net weight | 0.6 kg |
| product feature / conformal coating | Yes |
| fastening method | |
| ● 35 mm DIN-rail mounting | Yes |
| **performance data / PROFIBUS DP** | |
| service / as DP master | |
| ● DPV0 | Yes |
| ● DPV1 | Yes |
| number of DP devices | |
| ● at the 2nd interface / as DP master / maximum | 125; or 64 as S2 device |
| data volume | |
| ● of the address range of the inputs / as DP master / total | 4096 byte |
| ● of the address range of the outputs / as DP master / total | 4096 byte |
| ● of the address range of the inputs / per DP device | 244 byte |
| ● of the address range of the outputs / per DP device | 244 byte |
| **performance data / S7 communication** | |
| number of possible connections / for S7 communication | |
| ● maximum | 32 |
| **performance data / multi-protocol mode** | |
| number of active connections / with multi-protocol mode | 48 |
| **performance data / PROFINET communication / as PN IO device** | |
| product function / PROFINET IO device | Yes |
| **product functions / management, configuration, engineering** | |
| product function / MIB support | Yes |
| protocol / is supported | |
| ● SNMP v1 | Yes |
| ● DCP | Yes |
| ● LLDP | Yes |
| configuration software | |
| ● required | STEP 7 as of V5.6 SP2 HF3 and HSP, STEP 7 Professional as of V17, PCS 7 as of V9.0 SP3, SINEC PNI as of V1.0 |
| identification & maintenance function | |
| ● I&M0 - device-specific information | Yes |
| ● I&M1 - higher level designation/location designation | Yes |
| ● I&M2 - installation date | Yes |
| ● I&M3 - comment | Yes |
| product function / is supported / identification link | Yes; acc. to IEC 61406-1:2022 |
| **product functions / routing** | |
| service / as PROFIBUS / dataset routing | Yes |
| number of possible connections / with dataset routing / maximum | 32 |
| **product functions / redundancy** | |
| product function | |
| ● ring redundancy | Yes |
| product function / of the PROFINET IO device / is supported | |
| ● PROFINET system redundancy | Yes; as an S2 device on CPU 410-5 H, S7-400H and S7-1500R/H |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| **product functions / time** | |
| product function / pass on time synchronization | Yes |
| protocol / is supported | |
| ● NTP | Yes |
| ● SIMATIC time synchronization (SIMATIC Time) | Yes |


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| **standards, specifications, approvals** | |
| certificate of suitability / CE marking | Yes |
| certificate of suitability / UKCA marking | Yes |
| certificate of suitability / KC approval | Yes |
| certificate of suitability / RoHS conformity | Yes |
| certificate of suitability / EAC approval | Yes |
| **standards, specifications, approvals / hazardous environments / header** | |
| certificate of suitability / ATEX | Yes |
| certificate of suitability / IECEx | Yes |
| certificate of suitability / ULhazloc approval | Yes |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |
| **standards, specifications, approvals / Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 153.98 kg |
| ● during manufacturing | 22.6 kg |
| ● during operation | 131 kg |
| ● after end of life | 0.38 kg |
| **accessories** | |
| accessories | optional: C-PLUG (mandatory for S7 1500R/H), SIMATIC BusAdapter of the ET 200SP system |
| **further information / internet links** | |
| internet link | |
| ● to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to website: Industrial communication | https://www.siemens.com/simatic-net |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

## Approvals / Certificates

### General Product Approval









China RoHS



| General Product Approval | EMV | For use in hazardous locations |
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FM CCC-Ex

| For use in hazardous locations | Environment |
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