

## Data sheet

6GK1411-5BB00

### 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

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 / maximum 95 %

protection class IP	IP20
<b>design, dimensions and weights</b>	
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
<b>performance data / PROFIBUS DP</b>	
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
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
• maximum	32
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	48
<b>performance data / PROFINET communication / as PN IO device</b>	
product function / PROFINET IO device	Yes
<b>product functions / management, configuration, engineering</b>	
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
<b>product functions / routing</b>	
service / as PROFIBUS / data set routing	Yes
number of possible connections / with data set routing / maximum	32
<b>product functions / redundancy</b>	
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
<b>product functions / time</b>	
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes
<b>standards, specifications, approvals</b>	

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
<b>standards, specifications, approvals / hazardous environments / header</b>	
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
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
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
<b>accessories</b>	
accessories	optional: C-PLUG (mandatory for S7 1500R/H), SIMATIC BusAdapter of the ET 200SP system
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	<p>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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>

<b>Approvals / Certificates</b>	
General Product Approval	EMV



[China RoHS](#)



KC

For use in hazardous locations

Environment



[CCC-Ex](#)



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