SIEMENS

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 %

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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 / data set routing	Yes
number of possible connections / with data set 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
standards, specifications, approvals	

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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

KC

For use in hazardous locations

CCC-Ex

Environment

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last modified: 10/28/2025

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