SIEMENS

Data sheet 6AG1411-5AB10-2AA0

product type designation

IE/PB LINK PN IO

SIPLUS NET IE/PB Link PN IO based on 6GK1411-5AB10 with conformal coating, -40…+60 °C, IE/PB Link PN IO gateway between Industrial Ethernet and PROFIBUS with PROFINET IO functionality S7 routing and data record routing, 10/100 Mbps Fast Ethernet, MRP, 9.6 Kbit/s up to 12 Mbps PROFIBUS, NTP



Figure similar

Technical Product Detail Page	https://i.siemens.com/1P6AG1411-5AB10-2AA0
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	0.0096 ... 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 bus adapter
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
ambient conditions	
ambient temperature	
● for vertical installation / during operation	-40 ... +40 °C
● for horizontally arranged busbars / during operation	-40 ... +60 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)

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relative humidity	
● with condensation / according to IEC 60068-2-38 / maximum	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances	
● conformity according to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
● conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
● conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.
● conformity according to EN 60721-3-6	Yes
resistance to mechanically active substances	
● conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
● conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / according to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / according to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, class A
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
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	64
data volume	
● of the address range of the inputs / as DP master / total	2048 byte
● of the address range of the outputs / as DP master / total	2048 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
identification & maintenance function	
● I&M0 - device-specific information	Yes

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● I&M1 - higher level designation/location designation	Yes
● I&M2 - installation date	Yes
● I&M3 - comment	Yes
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	No
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 / hazardous environments / header	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
accessories	
accessories	Optional: C-PLUG, 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				EMV	For use in hazardous locations
CE EG-Konf.	Manufacturer Declaration	UKCA	China RoHS	RCM	CCC-Ex

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