SIEMENS

Data sheet 6GK1411-5AB10

product type designation	**IE/PB LINK PN IO**

IE/PB link PN IO, gateway between Industrial Ethernet and PROFIBUS, PROFINET IO proxy with real-time communication, time-of-day synchronization via SIMATIC processes, NTP, SNMP v1, LLDP, S7 routing, data record routing, connection of up to 64 S7/DPV0/DPV1 slaves, support of DP/PA link and DP/FF link, 10/100 Mbit/s fast Ethernet, MRP, 9.6 Kbit/s up to 12 Mbit/s PROFIBUS, firmware loading via configuration tool, redundant power supply, firmware version V4.0.

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 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	0 ... 40 °C
● for horizontally arranged busbars / during operation	0 ... 60 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
relative humidity	
● at 25 °C / without condensation / during operation / maximum	95 %
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 top hat DIN rail mounting	Yes
performance data / PROFIBUS DP	
service / as DP master	
● DPV0	Yes
● DPV1	Yes
number of DP slaves	
● 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 slave	244 byte
● of the address range of the outputs / per DP slave	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 V5.5 SP4 HF11 and HSP, STEP 7 Professional as of V15, PCS7 V9.0, PCS neo as of V3.0, 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 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	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
● as marking	Ex nA IIC T4 Gc
accessories	
accessories	Optional: C-PLUG, BusAdapter of the ET 200SP system
further information / internet links	
internet link	

● to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	https://new.siemens.com/global/de/produkte/automatisierung/industrielle-kommunikation.html
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

last modified: 8/18/2023