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Data sheet 6GK1411-5AB10

Product type designation



IE/PB LINK PN IO

IE/PB LINK PN IO gateway between Ind. Ethernet and PROFIBUS with PROFINET IO Functionality S7 routing and data record routing, 10/100 Mbit/s Fast Ethernet, MRP, 9.6 kbit/s up to 12 Mbit/s PROFIBUS, NTP.

Suitability for operation	Gateway between Industrial Ethernet and PROFIBUS
Transmission rate	
Transfer rate	
• for Industrial Ethernet	10 ... 100 Mbit/s
• at the 1st interface / acc. to PROFIBUS	9.6 kbit/s ... 12 Mbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
• at the 1st interface / acc. to PROFIBUS	1
• for power supply	2
Type of electrical connection	
• at the 1st interface / acc. to PROFIBUS	9-pin Sub-D socket (RS485)
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• for power supply	4-pole terminal block
Interface design 1 / Note	2-port switch
design of the removable storage / C-PLUG	Yes

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Supply voltage, current consumption, power loss	
Type of voltage / of the supply voltage	DC
Supply voltage / external	24 V
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] / Note	Typical
Power loss [W]	4.8 W

Permitted 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 weight	
Module format	ET 200SP design
Width	100 mm
Height	117 mm
Depth	74 mm
Net weight	0.6 kg
Mounting type	
• 35 mm DIN rail mounting	Yes

Performance data / PROFIBUS DP	
Service / as DP master	
• DPV1	Yes
Number of DP slaves / on DP master / usable	64
Amount of data	
• of the address area of the inputs / as DP master / total	2048 byte
• of the address area of the outputs / as DP master / total	2048 byte
• of the address area of the inputs / per DP slave	244 byte

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• of the address area 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
Performance data / telecontrol	
Protocol / is supported	
• TCP/IP	Yes
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, STEP 7 Professional (TIA Portal) as of V14 Update 1, PST as of V4.2 HF1
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 / switch	
Product feature / Switch	Yes
Product function	
• Configuration with STEP 7	Yes
Product functions / Routing	
Service / as PROFIBUS / dataset routing	Yes; Maximum 32 connections
Number of possible connections / with dataset routing / maximum	32
Product functions / Redundancy	
Product function	
• Ring redundancy	Yes
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes

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Product functions / Time	
Product function / SICLOCK support	Yes
Product function / pass on time synchronization	Yes
Protocol / is supported	
• NTP	Yes

Accessories	
accessories	Optional: C-PLUG, BusAdapter of the ET 200SP system

Further Information / Internet Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• 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	http://www.siemens.com/industry/infocenter
• 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

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