SIEMENS

Data sheet

Product type designation

6GK1411-5AB10

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 FAST ETHERNET, MRP, 9.6 KBIT/S UP TO 12 MBIT PROFIBUS, NTP.



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
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 Supply voltage / external / at DC / at 24 V 20 % Relative negative tolerance / at DC / at 24 V 20 % Relative negative tolerance / at DC / at 24 V 15 % Consumed current 0.2 A • from external supply voltage / at DC / at 24 V / 0.3 A maximum 0.3 A Power loss [W] 4.8 W Power loss [W] 0		
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 / 0.2 A • from external supply voltage / at DC / at 24 V / 0.3 A • from external supply voltage / at DC / at 24 V / 0.3 A • from external supply voltage / at DC / at 24 V / 0.3 A • from external supply voltage / at DC / at 24 V / 0.3 A Power loss [W] 4.8 W Permitted ambient conditions 0 40 °C Ambient temperature 0 40 °C • for vertical installation / during operation 0 40 °C • during storage -40 +70 °C • during transport -40 +70 °C Relative humidity / at 25 °C / without condensation / 95 % Protection class IP IP20 Design, dimensions and weight 100 mm Width 100 mm Height 117 mm Depth 74 mm Net weight 0.6 kg Mounting type -35 mm DIN rail mounting Yes Yes Performance data / PROFIBUS DP Yes <		
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 Permitted ambient conditions 4.8 W Ambient temperature 0 40 °C • for vertical installation / during operation 0 40 °C • for horizontally arranged busbars / during operation 0 40 °C • during storage -40 +70 °C • during transport 95 % Protection class IP IP20 Design, dimensions and weight 100 mm Width 100 mm Height 117 mm Depth 74 mm Net weight 0.6 kg Mounting type -35 mm DIN rail mounting Yes Service / as DP master • DPV1 Yes Service / as DP master 65 Amount of data 65		
Consumed current from external supply voltage / at DC / at 24 V / typical from external supply voltage / at DC / at 24 V / maximum Power loss [W] 4.8 W Power loss [W] 4.8 W Permitted ambient conditions Ambient temperature 0 40 °C for vertical installation / during operation 0 40 °C for horizontally arranged busbars / during operation 0 40 °C for horizontally arranged busbars / during operation 0 470 °C during storage -40 +70 °C during transport -40 +70 °C Relative humidity / at 25 °C / without condensation / 95 % Protection class IP IP20 Design, dimensions and weight 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 Yes		
• from external supply voltage / at DC / at 24 V / typical0.2 A• from external supply voltage / at DC / at 24 V / maximum0.3 A• Power loss [W]4.8 W• Power loss [W]0 40 °C• Ambient conditions0 40 °C• for vertical installation / during operation • for horizontally arranged busbars / during operation0 40 °C• during storage • during transport-40 +70 °C• during transport-40 +70 °C• during operation / during operation / during operation / eduring transport95 %• Totection class IPIP20Design, dimensions and weight Height100 mm• Height Height100 mm• Height • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPYesService / as DP master • DPV1Yes• DPV1 Number of DP slaves / on DP master / usable Amount of data65		
typical istrict of the point of the p		
maximum 4.8 W Power loss [W] 4.8 W Ambient conditions		
Permitted ambient conditions Ambient temperature 0 40 °C • for vertical installation / during operation 0 60 °C • for horizontally arranged busbars / during 0 60 °C operation -40 +70 °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 100 mm 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 Yes Service / as DP master - • DPV1 Yes Number of DP slaves / on DP master / usable 65 Amount of data -		
Ambient temperature for vertical installation / during operation for horizontally arranged busbars / during our 60 °C media of the constraint o		
• for vertical installation / during operation0 40 °C• for horizontally arranged busbars / during operation0 60 °C• during storage-40 +70 °C• during transport-40 +70 °CRelative humidity / at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weight100 mmHeight100 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPYesService / as DP master 		
• for horizontally arranged busbars / during operation0 60 °C• during storage • during transport-40 +70 °C- during transport-40 +70 °CRelative humidity / at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weightWidth100 mmHeight117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPYesService / as DP master • DPV1YesNumber of DP slaves / on DP master / usable Amount of data65		
operation-40 +70 °C• during storage-40 +70 °C• during transport-40 +70 °CRelative humidity / at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weightWidth100 mmHeight117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesService / as DP master• DPV1YesNumber of DP slaves / on DP master / usable65Amount of data		
• during storage-40 +70 °C• during transport-40 +70 °CRelative humidity / at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weightWidth100 mmHeight117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPService / as DP master • DPV1YesNumber of DP slaves / on DP master / usable65Amount of data		
• during transport-40 +70 °CRelative humidity / at 25 °C / without condensation / during operation / maximum95 %Protection class IPIP20Design, dimensions and weightWidth100 mmHeight117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesService / as DP master• DPV1YesNumber of DP slaves / on DP master / usable65Amount of dataImage: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Image: Colspan="2">Colspan="2">Image: Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2">Colspan="2"Colspan="2"Protection class IPColspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Cols		
Relative humidity / at 25 °C / without condensation / during operation / maximum 95 % Protection class IP IP20 Design, dimensions and weight 100 mm Width 100 mm Height 117 mm Depth 74 mm Net weight 0.6 kg Mounting type • 35 mm DIN rail mounting • 35 mm DIN rail mounting Yes Performance data / PROFIBUS DP Yes Number of DP slaves / on DP master / usable 65 Amount of data Image: Content of the state of the s		
during operation / maximumIP20Protection class IPIP20Design, dimensions and weight100 mmWidth100 mmHeight117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPYesService / as DP master • DPV1YesNumber of DP slaves / on DP master / usable65Amount of dataImage: Comparison of the state of t		
Protection class IPIP20Design, dimensions and weight100 mmWidth100 mmHeight117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPYesService / as DP master • DPV1YesNumber of DP slaves / on DP master / usable65Amount of dataImage: Comparison of the state of the st		
Design, dimensions and weight 100 mm 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 65 Amount of data -		
Width100 mmHeight117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPService / as DP master • DPV1YesNumber of DP slaves / on DP master / usable65Amount of dataImage: Comparison of the table of tab		
Height117 mmDepth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPYesService / as DP master • DPV1YesNumber of DP slaves / on DP master / usable65Amount of dataYes		
Depth74 mmNet weight0.6 kgMounting type • 35 mm DIN rail mountingYesPerformance data / PROFIBUS DPService / as DP master • DPV1YesNumber of DP slaves / on DP master / usable65Amount of dataImage: Comparison of the text of text o		
Net weight 0.6 kg Mounting type • 35 mm DIN rail mounting • 35 mm DIN rail mounting Yes Performance data / PROFIBUS DP Service / as DP master • DPV1 Number of DP slaves / on DP master / usable Amount of data		
Mounting type Yes • 35 mm DIN rail mounting Yes Performance data / PROFIBUS DP Yes Service / as DP master Yes • DPV1 Yes Number of DP slaves / on DP master / usable 65 Amount of data Image: Amount of data		
 35 mm DIN rail mounting Yes Performance data / PROFIBUS DP Service / as DP master DPV1 Yes Number of DP slaves / on DP master / usable Amount of data 		
Performance data / PROFIBUS DP Service / as DP master • DPV1 Yes Number of DP slaves / on DP master / usable 65 Amount of data		
Service / as DP master Yes • DPV1 Yes Number of DP slaves / on DP master / usable 65 Amount of data		
• DPV1YesNumber of DP slaves / on DP master / usable65Amount of data		
Number of DP slaves / on DP master / usable 65 Amount of data 1		
Amount of data		
a of the address area of the inpute / ca DD 2010 bute		
of the address area of the inputs / as DP 2048 byte master / total		
of the address area of the outputs / as DP 2048 byte master / total		
 of the address area of the inputs / per DP slave 244 byte 		
of the address area of the outputs / per DP 244 byte slave		
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 Product function / PROFINET IO device		
Product function / PROFINET TO 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	
Identification & maintenance function		
 I&M0 - device-specific information 	Yes	
 I&M1 – higher-level designation/location 	Yes	
designation		
• 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	
Number of possible connections / with dataset	32	
routing / maximum		
Product functions / Redundancy		
Product function		
Ring redundancy	Yes	
Protocol / is supported / Media Redundancy Protocol	Yes	
(MRP)		
Product functions / Time		
Product function / SICLOCK support	Yes	
Product function / pass on time synchronization	Yes	
Protocol / is supported		
• NTP	Yes	
Further Information / Internet Links		
Internet-Link		

• to website: Selector SIMATIC NET SELECTION TOOL

- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

Security information

Security information

last modified:

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

- https://mall.industry.siemens.com
- http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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. Thirdparty 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)

07/03/2017