## **SIEMENS**

6GK1411-5AB00 Data sheet

## 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 dataset routing, 10/100 Mbit/s Fast Ethernet 9.6 Kbit/s up to 12 Mbit/s PROFIBUS Functional replacement for this product is 6GK1411-5AB10, Please not: Changed enclosure dimensions

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Transfer rate

• at the 1st interface

• at the 1st interface / acc. to PROFIBUS

10 ... 100 Mbit/s

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 | 1                          |
| • at the 1st interface / acc. to PROFIBUS            | 1                          |
| • for power supply                                   | 1                          |
| 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                                   | 2-pole terminal block      |
| design of the removable storage / C-PLUG             | Yes                        |

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|----------|---------|------|----------|-------------|---|-------|--------|
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|          |         |      |          |             |   |       |        |

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   5 %   | Supply voltage / external                          | 24 V                               |
|--|--|------------------------------------|
| Relative negative tolerance / at DC / at 24 V / Consumed current  • from external supply voltage / at DC / at 24 V / maximum  Power loss [W] 10 W  Ambient conditions  Ambient temperature  • during peration 0 60 °C  • during storage 40 +70 °C  Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP IP20  Pesign, dimensions and weights  Module format Compact module \$7-300 double width  Width 80 mm  Height 125 mm  Depth 120 mm  Net weight 0.6 kg  Performance data / PROFIBUS DP  Service / as DP master / usable 64  Amount of data • of the address area of the inputs / as DP master / total • of the address area of the inputs / per DP slave of the address area of the outputs / per DP slave         | Supply voltage / external / at DC / Rated value    | 24 V                               |
| Consumed current  • from external supply voltage / at DC / at 24 V / maximum  Power loss [W] 10 W  Ambient conditions  Ambient temperature  • during operation 0 60 °C • during peration 40 +70 °C  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP IP20  Design dimensions and weights  Module format Compact module \$7-300 double width 80 mm  Height 120 mm  Net weight 0.6 kg  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 • of the address area of the outputs / per DP slave • of the address area of the inputs / per DP slave • of the address area of the inputs / per DP slave • of the address area of the inputs / per DP slave • of the address area of the outputs / per DP slave                                | Relative positive tolerance / at DC / at 24 V      | 5 %                                |
| • from external supply voltage / at DC / at 24 V / maximum  Power loss [W] 10 W  Ambient conditions  Ambient temperature • during operation 0 60 °C • during storage 40 +70 °C  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP IP20  Design, dimensions and weights  Module format Compact module \$7-300 double width Width 80 mm  Height 125 mm  Depth 120 mm  Net weight 0.6 kg  Performance data / PROFIBUS DP  Service / as DP master • DPV1 Yes  Number of DP slaves / on DP master / usable • of the address area of the inputs / as DP master / total • of the address area of the outputs / per DP slave   | Relative negative tolerance / at DC / at 24 V      | 5 %                                |
| maximum Power loss [W] 10 W  Ambient conditions  Ambient conditions  Ambient emperature  • during peration • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Pesign, dimensions and weights  Module format  Compact module S7-300 double width  Width 80 mm  Height 125 mm  Depth 120 mm  Net weight 120 mm  Net weight 0.6 kg  Performance data / PROFIBUS DP  Service / as DP master / botal • Of the address area of the inputs / as DP master / total • of the address area of the outputs / per DP slave • of t | Consumed current                                   |                                    |
| Ambient temperature  • during operation • during storage • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weights  Module format  Wridth  Bo mm  Height  125 mm  Depth  120 mm  Net weight  Parformance data / PROFIBUS DP  Service / as DP master • DPV1  Number of DP slaves / on DP master / usable  Amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP 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  48   | * * * *  | 0.6 A                              |
| Ambient temperature  • during operation • during storage • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weights  Module format  Compact module S7-300 double width  Width  80 mm  Height  125 mm  Depth  120 mm  Net weight  Depth  120 mm  Net weight  Performance data / PROFIBUS DP  Service / as DP master • DPV1  Number of DP slaves / on DP master / usable  4 Amount of data • of the address area of the outputs / as DP master / total • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of maximum  32  Performance data / multi-protocol mode  Number of active connections / with multi-protocol  Number of active connections / with multi-protocol  Number of active connections / with multi-protocol  48   | Power loss [W]                                     | 10 W                               |
| • during operation     • during storage     • during transport       | Ambient conditions                                 |                                    |
| during storage     during transport     during transport     A0 +70 °C  Relative humidity     at 25 °C / without condensation / during operation / maximum  Protection class IP  Protection class IP  Design, dimensions and weights  Module format  Compact module S7-300 double width  Width  80 mm  Height  125 mm  Depth  120 mm  Net weight  Performance data / PROFIBUS DP  Service / as DP master   | Ambient temperature                                |                                    |
| • during transport  Relative humidity • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weights  Module format  Compact module S7-300 double width  Width  80 mm  Height  125 mm  Depth  120 mm  Net weight  Destrice / as DP master • DPV1  Number of DP slaves / on DP master / usable  Amount of data • of the address area of the inputs / as DP master / total • of the address area of the inputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP slave • of maximum  32  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   | during operation                                   | 0 60 °C                            |
| Relative humidity  • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weights  Module format  Width  Height  Depth  125 mm  Depth  120 mm  Net weight  Performance data / PROFIBUS DP  Service / as DP master  • DPV1  Number of DP slaves / on DP master / usable  Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • o | during storage                                     | -40 +70 °C                         |
| • at 25 °C / without condensation / during operation / maximum  Protection class IP  Design, dimensions and weights  Module format  Compact module S7-300 double width  Width  80 mm  Height 125 mm  Depth 120 mm  Net weight  O.6 kg  Performance data / PROFIBUS DP  Service / as DP master • DPV1  Number of DP slaves / on DP master / usable  Amount of data • of the address area of the inputs / as DP master / total • of the address area of the inputs / per DP slave • of the address area of the outputs / per DP slave • of the address area  | during transport                                   | -40 +70 °C                         |
| operation / maximum  Protection class IP  Protectio | Relative humidity                                  |                                    |
| Design, dimensions and weights  Module format  Compact module \$7-300 double width  Width  80 mm  Height  125 mm  Depth  120 mm  Net weight  O.6 kg  Performance data / PROFIBUS DP  Service / as DP master  • DPV1  Number of DP slaves / on DP master / usable  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of maximum  32  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  48   | _  | 95 %                               |
| Module format  Compact module S7-300 double width  Width  80 mm  Height  125 mm  Depth  120 mm  Net weight  20.6 kg  Performance data / PROFIBUS DP  Service / as DP master  DPV1  Yes  Number of DP slaves / on DP master / usable  Amount of data  of the address area of the inputs / as DP master / total  of the address area of the outputs / as DP master / total  of the address area of the inputs / per DP slave  of the address area of the outputs / per DP slave  of the address area of the outputs / per DP slave  of the address area of the outputs / per DP slave  and the address area of the outputs / per DP 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  Number of active connections / with multi-protocol  Number of active connections / with multi-protocol   | Protection class IP                                | IP20                               |
| Module format  Compact module S7-300 double width  Width  80 mm  Height  125 mm  Depth  120 mm  Net weight  Performance data / PROFIBUS DP  Service / as DP master  • DPV1  Yes  Number of DP slaves / on DP master / usable  Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave • of the address area of the outputs / per DP slave • of the address area of the outputs / per DP 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  48   | Design dimensions and weights                      |                                    |
| Height 125 mm  Depth 120 mm  Net weight 0.6 kg  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 0.6 the address area of the outputs / as DP master / total 0.0 of the address area of the inputs / per DP slave 0.0 of the address area of the inputs / per DP slave 0.0 of the address area of the outputs / per DP slave 0.0 of the address area of the outputs / per DP 244 byte 1.0 of the address area of the outputs / per DP 2 |  | Compact module S7-300 double width |
| Depth Net weight  120 mm  Net weight  0.6 kg  Performance data / PROFIBUS DP  Service / as DP master  • DPV1  Yes  Number of DP slaves / on DP master / usable  Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of maximum  32  Performance data / S7 communication  • maximum  32  Performance data / multi-protocol mode  Number of active connections / with multi-protocol  48  | Width  | 80 mm                              |
| Net weight  O.6 kg  Performance data / PROFIBUS DP  Service / as DP master  • DPV1  Number of DP slaves / on DP master / usable  Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outp | Height   | 125 mm                             |
| Performance data / PROFIBUS DP  Service / as DP master  • DPV1  Number of DP slaves / on DP master / usable  Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP asser / total  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave   | Depth  | 120 mm                             |
| Service / as DP master  • DPV1  Number of DP slaves / on DP master / usable  Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outpu | Net weight   | 0.6 kg                             |
| Service / as DP master  • DPV1  Number of DP slaves / on DP master / usable  Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outpu | Performance data / PROFIBUS DP                     |                                    |
| Number of DP slaves / on DP master / usable  Amount of data  of the address area of the inputs / as DP 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 of the address area of the inputs / per DP slave of the address area of the outputs / per DP 244 byte  slave  Performance data / S7 communication  Number of possible connections / for S7 communication  maximum  again and service data / multi-protocol mode  Number of active connections / with multi-protocol  48   |  |                                    |
| Amount of data  • of the address area of the inputs / as DP master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave  • of the address area of the inputs / per DP slave  • of the address area of the outputs / per DP slave  • of the address area of the outputs / per DP slave  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  48  | • DPV1   | Yes                                |
| of the address area of the inputs / as DP master / total     of the address area of the outputs / as DP master / total     of the address area of the inputs / per DP slave     of the address area of the outputs / per DP slave     of the address area of the outputs / per DP slave     of the address area of the outputs / per DP slave     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  48  | Number of DP slaves / on DP master / usable        | 64                                 |
| master / total  • of the address area of the outputs / as DP master / total  • of the address area of the inputs / per DP slave • of the address area of the outputs / per DP 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 48  | Amount of data                                     |                                    |
| master / total  of the address area of the inputs / per DP slave of the address area of the outputs / per DP slave  Performance data / S7 communication  Number of possible connections / for S7 communication maximum  again  | -  | 2048 byte                          |
| of the address area of the outputs / per DP slave  Performance data / S7 communication  Number of possible connections / for S7 communication  |  | 2048 byte                          |
| Performance data / S7 communication  Number of possible connections / for S7 communication  • maximum  Performance data / multi-protocol mode  Number of active connections / with multi-protocol  48  | • of the address area of the inputs / per DP slave | 244 byte                           |
| Number of possible connections / for S7 communication  • maximum  32  Performance data / multi-protocol mode  Number of active connections / with multi-protocol  48   |  | 244 byte                           |
| communication  • maximum  32  Performance data / multi-protocol mode  Number of active connections / with multi-protocol  48   | Performance data / S7 communication                |                                    |
| maximum  Performance data / multi-protocol mode  Number of active connections / with multi-protocol  48  | •  |                                    |
| Performance data / multi-protocol mode  Number of active connections / with multi-protocol 48  | communication                                      |                                    |
| Number of active connections / with multi-protocol 48  | • maximum  | 32                                 |
|  | Performance data / 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 functions / management, configuration, engineering Product function / MIB support Protocol / is supported • SNMP v1 Yes Configuration software required STEP 7 V5.4 or higher or STEP 7 Professional (TIA Portal) V11 or higher Product functions / Routing Service / as PROFIBUS / dataset routing Yes; Maximum 32 connections Number of possible connections / with dataset routing / maximum Product function / pass on time synchronization Yes Further information / Internet-Links Internet-Link • to website: Selector SIMATIC NET http://www.siemens.com/snst **SELECTION TOOL** http://www.siemens.com/simatic-net • to website: Industrial communication https://mall.industry.siemens.com • to website: Industry Mall http://www.siemens.com/industry/infocenter • to website: Information and Download Center http://automation.siemens.com/bilddb • to website: Image database http://www.siemens.com/cax • to website: CAx Download Manager https://support.industry.siemens.com • to website: Industry Online Support

Security information

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