SIEMENS

Data sheet

6AG2620-0AA00-4AA0



SIPLUS PN/CAN link TX rail based on 6BK1620-0AA00-0AA0 with conformal coating, -40...+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes), module PROFINET to CAN or CANopen Fieldbus CAN 2.0 A/B CANopen Manager or Slave according to CiA301/302 IP20

General information				
Product type designation	PN/CAN Link			
Firmware version				
FW update possible	Yes			
Vendor identification (VendorID)	ID 09 00 00 53h acc. to CiA			
based on	<u>6BK1620-0AA00-0AA0</u>			
Engineering with				
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275			
Installation type/mounting				
Mounting	DIN rail, wall mounting, portrait mounting			
Mounting position	any			
Recommended mounting position	Horizontal			
Rail mounting	Yes			
Control cabinet installation	Yes			
Supply voltage				
Type of supply voltage	DC			
Rated value (DC)	24 V			
permissible range, lower limit (DC)	20.4 V			
permissible range, upper limit (DC)	28.8 V			
Reverse polarity protection	Yes			
Overvoltage protection	Yes			
Short-circuit protection	Yes			
Mains buffering				
 Mains/voltage failure stored energy time 	10 ms			
Input current				
Current consumption (rated value)	0.09 A			
Current consumption, max.	0.11 A			
Power loss				
Power loss, typ.	2.2 W			
Interfaces				
Interfaces/bus type	2x Ethernet (RJ45), 1x Sub-D (9-pin)			
Supports protocol for PROFINET IO				
 automatic detection of transmission rate 	No			
Transmission rate, max.	100 Mbit/s			
Number of RJ45 ports	2			
 Number of FC (FastConnect) connections 	2			
PROFINET functions				
 Assignment of the IP address, supported 	Yes			
 Assignment of the device name, supported 	Yes			
1. Interface				

	-			
Interface type	CAN according to CiA 303-1			
Isolated	Yes; 500 V AC or 707 V DC			
Interface types				
Number of ports	1			
 Design of the connection 	9-pin sub D socket			
CAN				
CAN operating modes	CAN Standard CAN 2.0A/B; CANopen Manager / Slave acc. to CiA			
Specification acc. to CiA	CiA 301 & CiA 302			
Transmission rate, min.	50 kbit/s			
Transmission rate, max.				
	1 000 kbit/s			
max. number of devices	126 10. Desettet			
Number of SDOs in parallel	16; Parallel			
Number of PDOs	512; Send / receive			
Services				
— Node/life-guarding	Yes			
— Heartbeat	Yes			
- SYNC	Yes			
2. Interface				
Interface type	PROFINET			
Isolated	Yes; 1 500 V AC or 2 250 V DC			
Interface types				
RJ 45 (Ethernet)	Yes			
Number of ports	2			
integrated switch	Yes			
Protocols	103			
	Vee			
PROFINET IO Device	Yes			
Interrupts/diagnostics/status information				
Status indicator	Yes			
Alarms	Yes			
Diagnostics function	Yes			
Diagnostics indication LED				
RUN LED	Yes			
• ERROR LED	Yes			
MAINT LED	Yes			
• LINK LED	Yes			
• RX/TX LED	Yes			
Potential separation				
Potential separation exists	Yes			
Isolation				
Isolation tested with	750 V DC (type test) and according to EN 50155 (routine test)			
Degree and class of protection				
IP degree of protection	IP20			
Standards, approvals, certificates				
Ecological footprint				
 environmental product declaration 	Yes			
Global warming potential				
— global warming potential, (total) [CO2 eq]	50.8 kg			
— global warming potential, (during production) [CO2	14.4 kg			
eq]				
 — global warming potential, (during operation) [CO2 eq] 	36.8 kg			
— global warming potential, (after end of life cycle) [CO2 eq]	-0.52 kg			
Railway application				
• EN 50121-3-2	Yes; EMC for rail vehicles			
• EN 50121-4	Yes; EMC for signal and telecommunications systems			
• EN 50124-1	Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC			
- EN 50125 1				
• EN 50125-1	Yes; Rail vehicles - see ambient conditions			
• EN 50125-2	Yes; Stationary electrical equipment - see ambient conditions			
• EN 50125-3	Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away			

	from track)			
• EN 50155	Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting			
	position			
• EN 61373	Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B			
• Fire protection acc. to EN 45545-2	Yes; For proof of conformity, see Service & Support			
Ambient conditions				
Ambient temperature during operation	40 °C: - Train (incl. condensation/fract)			
 horizontal installation, min. horizontal installation, max. 	-40 °C; = Tmin (incl. condensation/frost) 70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155)			
vertical installation, min.	-40 °C; = Tmin			
vertical installation, max.	55 °C: = Tmax			
 ceiling installation, min. 	-40 °C; = Tmin			
ceiling installation, max.	45 °C; = Tmax			
• floor installation, min.	-40 °C; = Tmin			
• floor installation, max.	45 °C; = Tmax			
Ambient temperature during storage/transportation				
• min.	-40 °C			
• max.	85 °C			
Altitude during operation relating to sea level				
 Installation altitude above sea level, max. 	2 000 m			
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)			
Relative humidity				
With condensation, tested in accordance with IEC 60068- 2-38 max	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation			
2-38, max. Resistance				
Coolants and lubricants				
— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air			
Use in stationary industrial systems				
 — to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request			
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *			
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *			
Use on land craft, rail vehicles and special-purpose vehicles				
 — to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request			
 — to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *			
 — to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *			
Usage in industrial process technology				
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)			
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)			
Remark				
 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!			
Conformal coating				
Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability			
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection			
• Electronic equipment on rolling stock acc. to EN 50155	Yes; Class PC2 protective coating acc. to EN 50155:2017			
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life			
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A 	Yes; Conformal coating, Class A			
Dimensions				
Width	70 mm			
L La Carlad	112 mm			
Height Depth	75 mm			

Weight, approx.			212 g		
ther					
Note:			for use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A, Online Support article 109736776		
lassifications					
				Version	Classification
			eClass	14	27-24-22-08
			eClass	12	27-24-22-08
			eClass	9.1	27-24-22-08
			eClass	9	27-24-22-08
			eClass	8	27-24-22-08
			eClass	7.1	27-24-22-08
			eClass	6	27-24-22-08
			ETIM	9	EC001423
			ETIM	8	EC001423
			ETIM	7	EC001423
			IDEA	4	3564
			UNSPSC	15	32-15-17-05
opprovals / Certificate	es				
General Product Ap	oproval				EMV
Miscellaneous		Manufacturer D		-	•
Miscellarieous	CE	tion		(JI)	
	EG-Konf.		CA	<u> </u>	ECM RCM
				62	
Railway	Environment				
Confirmation					
	EPD				
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