SIEMENS

## Data sheet 6AG2623-0AA00-4AA0


Figure similar

SIPLUS PN/J1939 link TX rail based on 6BK1623-0AA00-0AA0 with conformal coating, -40…+70 °C, ST1/2: +85 °C for 10 minutes, gateway from Profinet to J1939 networks, IP20

| | |
|---|---|
| **General information** | |
| Product type designation | PN/J1939 LINK |
| Firmware version | |
| ● FW update possible | Yes |
| Vendor identification (VendorID) | 0x002A |
| based on | 6BK1623-0AA00-0AA0 |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Isochronous mode | No |
| 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; PN side |
| **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 | J1939 according to the standard "SAE J1939" |
| 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 | J1939 according to the standard "SAE J1939" |
| ● Transmission rate, min. | 100 kbit/s |
| ● Transmission rate, max. | 500 kbit/s |
| ● max. number of devices | 30 |
| J1939 | |
| ● Addressable ECUs, max. | 30 |
| ● Logical nodes, max. | 253 |
| ● PDU 1 | Yes |
| ● PDU 2 | Yes |
| ● DM data | Yes |
| ● BAM | Yes |
| ● CMDT | 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 | |
| ● 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 eq] | 14.4 kg |
| — 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 | 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 | |
| ● horizontal installation, min. | -40 °C; = Tmin (incl. condensation/frost) |
| ● horizontal installation, max. | 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 |
| 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 |
| **Software** | |
| Runtime software | |
| Target system | |
| — ET 200SP | Yes |
| — Open Controller | Yes |
| — S7-1200 | Yes |
| — S7-1500 | Yes |
| **Dimensions** | |
| Width | 70 mm |
| Height | 112 mm |
| Depth | 75 mm |
| **Weights** | |
| Weight, approx. | 212 g |
| **Other** | |
| Note: | for use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A, Online Support article 109736776 |

**Classifications**

| | 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 | 10 | EC001423 |
| ETIM | 9 | EC001423 |
| ETIM | 8 | EC001423 |
| ETIM | 7 | EC001423 |
| IDEA | 4 | 3564 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

| General Product Approval | | | | | EMV |
|---|---|---|---|---|---|
| CE EG-Konf. | Manufacturer Declaration | UKCA | China RoHS | UL | RCM |

| Railway | Environment |
|---|---|
| Confirmation | EPD |

**last modified:** 10/23/2025