



Figure similar

SIMATIC PN/J1939 Link, gateway from PROFINET to J1939 networks, IP20

| General information  |  |
|--|--|
| Product type designation   | PN/J1939 LINK                              |
| Firmware version   | V1.0                                       |
| <ul style="list-style-type: none"> <li>FW update possible</li> </ul>                                     | Yes  |
| Vendor identification (VendorID)   | 0x002A                                     |
| Product function   |  |
| <ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>   | Yes  |
| <ul style="list-style-type: none"> <li>Isochronous mode</li> </ul>                                       | No   |
| Engineering with   |  |
| <ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul> | STEP 7 V14 SP1 or higher                   |
| 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  |  |
| <ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>               | 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  |  |
| <ul style="list-style-type: none"> <li>automatic detection of transmission rate</li> </ul>               | No   |
| <ul style="list-style-type: none"> <li>Transmission rate, max.</li> </ul>                                | 100 Mbit/s                                 |
| <ul style="list-style-type: none"> <li>Number of RJ45 ports</li> </ul>                                   | 2  |
| <ul style="list-style-type: none"> <li>Number of FC (FastConnect) connections</li> </ul>                 | 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
- Number of slaves, max. 30

### J1939

- Addressable ECUs, max. 30
- Logical nodes, max. 253
- PDU 1 Yes
- PDU 2 Yes
- DM data Yes
- BAM Yes
- CMTD 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

## Degree and class of protection

IP degree of protection IP20

## Standards, approvals, certificates

CE mark Yes  
 UL approval Yes  
 cULus Yes  
 RCM (formerly C-TICK) Yes  
 KC approval Yes  
 EAC (formerly Gost-R) Yes  
 PNO certificate Yes  
 RoHS conformity Yes

### Marine approval

- Germanischer Lloyd (GL) Yes
- Det Norske Veritas (DNV) Yes
- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (Class NK) Yes

## Ambient conditions

Ambient temperature during operation  
 • horizontal installation, min. -25 °C  
 • horizontal installation, max. 60 °C

- vertical installation, min. -25 °C
- vertical installation, max. 55 °C
- ceiling installation, min. -25 °C
- ceiling installation, max. 45 °C
- floor installation, min. -25 °C
- floor installation, max. 45 °C

#### Ambient temperature during storage/transportation

- min. -40 °C
- max. 85 °C

#### Relative humidity

- Operation, max. 95 %

#### 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 |
|-----------------|-------|

**last modified:** 4/1/2022 