



SIMATIC PN/BACnet LINK coupling module for Profinet to BACnet/IP Fieldbus, Device-Profile: B-GW, IP20

| General information                                      |  |
|--|--|
| Product type designation                                 | PN/BACnet Link                             |
| Firmware version   |  |
| • FW update possible                                     | Yes  |
| Vendor identification (VendorID)                         | 7  |
| Product function   |  |
| • I&M data   | Yes  |
| • Isochronous mode                                       | No   |
| Engineering with   |  |
| • STEP 7 TIA Portal configurable/integrated from version | V14 SP1                                    |
| 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)                        | 0.11 A                                     |
| Current consumption, max.                                | 0.13 A                                     |
| Power loss   |  |
| Power loss, typ.   | 2.7 W                                      |
| Interfaces   |  |
| 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   | BACnet/IP                     |
| Isolated   | Yes; 1 500 V AC or 2 250 V DC |
| Interface types  |                               |
| <ul style="list-style-type: none"> <li>• RJ 45 (Ethernet)</li> </ul>                           | Yes                           |
| <ul style="list-style-type: none"> <li>• Number of ports</li> </ul>                            | 1                             |
| <ul style="list-style-type: none"> <li>• Design of the connection</li> </ul>                   | RJ45                          |
| BACnet   |                               |
| <ul style="list-style-type: none"> <li>• BACnet device profile</li> </ul>                      | B-GW                          |
| <ul style="list-style-type: none"> <li>• Supported character sets</li> </ul>                   | ISO 10646 (UTF-8)             |
| <ul style="list-style-type: none"> <li>• Network Security</li> </ul>                           | No                            |
| <ul style="list-style-type: none"> <li>• Number if BACnet objects/object references</li> </ul> | 1 000                         |
| <ul style="list-style-type: none"> <li>• Number of subscription services</li> </ul>            | 1 000                         |
| 2. Interface   |                               |
| Interface type   | PROFINET                      |
| Isolated   | Yes; 1 500 V AC or 2 250 V DC |
| Interface types  |                               |
| <ul style="list-style-type: none"> <li>• RJ 45 (Ethernet)</li> </ul>                           | Yes                           |
| <ul style="list-style-type: none"> <li>• Number of ports</li> </ul>                            | 2                             |
| <ul style="list-style-type: none"> <li>• integrated switch</li> </ul>                          | Yes                           |
| Protocols  |                               |
| <ul style="list-style-type: none"> <li>• PROFINET IO Device</li> </ul>                         | Yes                           |
| Interrupts/diagnostics/status information  |                               |
| Status indicator   | Yes                           |
| Alarms   | Yes                           |
| Diagnostics function   | Yes                           |
| Diagnostics indication LED   |                               |
| <ul style="list-style-type: none"> <li>• RUN LED</li> </ul>                                    | Yes                           |
| <ul style="list-style-type: none"> <li>• ERROR LED</li> </ul>                                  | Yes                           |
| <ul style="list-style-type: none"> <li>• MAINT LED</li> </ul>                                  | Yes                           |
| <ul style="list-style-type: none"> <li>• LINK LED</li> </ul>                                   | Yes                           |
| <ul style="list-style-type: none"> <li>• RX/TX LED</li> </ul>                                  | 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                           |
| PNO certificate  | Yes                           |
| BTL certificate  | Yes                           |
| RoHS conformity  | Yes                           |
| Ambient conditions   |                               |
| Ambient temperature during operation   |                               |
| <ul style="list-style-type: none"> <li>• horizontal installation, min.</li> </ul>              | -25 °C                        |
| <ul style="list-style-type: none"> <li>• horizontal installation, max.</li> </ul>              | 60 °C                         |
| <ul style="list-style-type: none"> <li>• vertical installation, min.</li> </ul>                | -25 °C                        |
| <ul style="list-style-type: none"> <li>• vertical installation, max.</li> </ul>                | 55 °C                         |
| <ul style="list-style-type: none"> <li>• ceiling installation, min.</li> </ul>                 | -25 °C                        |
| <ul style="list-style-type: none"> <li>• ceiling installation, max.</li> </ul>                 | 45 °C                         |
| <ul style="list-style-type: none"> <li>• floor installation, min.</li> </ul>                   | -25 °C                        |
| <ul style="list-style-type: none"> <li>• floor installation, max.</li> </ul>                   | 45 °C                         |
| Ambient temperature during storage/transportation  |                               |
| <ul style="list-style-type: none"> <li>• min.</li> </ul>                                       | -40 °C                        |
| <ul style="list-style-type: none"> <li>• max.</li> </ul>                                       | 85 °C                         |
| Relative humidity  |                               |
| <ul style="list-style-type: none"> <li>• Operation, max.</li> </ul>                            | 95 %                          |

| Software                        |                  |
|---------------------------------|------------------|
| Runtime software                |                  |
| Target system                   |                  |
| — ET 200SP                      | Yes              |
| — Open Controller               | Yes              |
| — S7-1200                       | Yes              |
| — S7-1500                       | Yes              |
| connection method               |                  |
| Design of electrical connection | Screw connection |
| Dimensions                      |                  |
| Width                           | 70 mm            |
| Height                          | 112 mm           |
| Depth                           | 75 mm            |
| Weights                         |                  |
| Weight, approx.                 | 210 g            |

**last modified:** 11/2/2021 