



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
Oversvoltage 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 of 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:** 10/12/2023 