

### product type designation



### IE/PB LINK PN IO

IE/PB link PN IO, gateway between Industrial Ethernet and PROFIBUS, PROFINET IO proxy with real-time communication, time-of-day synchronization via SIMATIC processes, NTP, SNMP V1, LLDP, S7 routing, data record routing, connection of up to 64 S7/DPV0/DPV1 slaves, support of DP/PA link and DP/FF link, 10/100 Mbit/s fast Ethernet, MRP, 9.6 Kbit/s up to 12 Mbit/s PROFIBUS, firmware loading via configuration tool, redundant power supply, firmware version V4.0.

### suitability for operation

Gateway between Industrial Ethernet and PROFIBUS

### transfer rate

#### transfer rate

- at the 1st interface
- at the 2nd interface

10 ... 100 Mbit/s  
9.6 kbit/s ... 12 Mbit/s

### interfaces

#### number of electrical connections

- at the 1st interface / according to Industrial Ethernet
- at the 2nd interface / according to PROFIBUS
- for power supply

2  
1  
2

#### type of electrical connection

- at the 1st interface / according to Industrial Ethernet

RJ45 port onboard or bus adapter

#### type of electrical connection

- at the 2nd interface / according to PROFIBUS
- for power supply

9-pin Sub-D socket (RS 485)  
4-pole terminal block

#### design of the removable storage

- C-PLUG

Yes

### supply voltage, current consumption, power loss

#### type of voltage / of the supply voltage

DC

#### supply voltage / external / at DC / rated value

24 V

#### relative positive tolerance / at DC / at 24 V

20 %

#### relative negative tolerance / at DC / at 24 V

15 %

#### consumed current

- from external supply voltage / at DC / at 24 V / typical
- from external supply voltage / at DC / at 24 V / maximum

0.2 A  
0.3 A

#### power loss [W]

4.8 W; Typical

### ambient conditions

#### ambient temperature

- for vertical installation / during operation
- for horizontally arranged busbars / during operation
- during storage
- during transport

0 ... 40 °C  
0 ... 60 °C  
-40 ... +70 °C  
-40 ... +70 °C

#### relative humidity

- at 25 °C / without condensation / during operation / maximum

95 %

#### protection class IP

IP20

### design, dimensions and weights

module format	ET 200SP design
width	100 mm
height	117 mm
depth	74 mm
net weight	0.6 kg
fastening method	
<ul style="list-style-type: none"> <li>• 35 mm top hat DIN rail mounting</li> </ul>	Yes
<b>performance data / PROFIBUS DP</b>	
service / as DP master	
<ul style="list-style-type: none"> <li>• DPV0</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DPV1</li> </ul>	Yes
number of DP slaves	
<ul style="list-style-type: none"> <li>• at the 2nd interface / as DP master / maximum</li> </ul>	64
data volume	
<ul style="list-style-type: none"> <li>• of the address range of the inputs / as DP master / total</li> </ul>	2048 byte
<ul style="list-style-type: none"> <li>• of the address range of the outputs / as DP master / total</li> </ul>	2048 byte
<ul style="list-style-type: none"> <li>• of the address range of the inputs / per DP slave</li> </ul>	244 byte
<ul style="list-style-type: none"> <li>• of the address range of the outputs / per DP slave</li> </ul>	244 byte
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	32
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode	48
<b>performance data / PROFINET communication / as PN IO device</b>	
product function / PROFINET IO device	Yes
<b>product functions / management, configuration, engineering</b>	
product function / MIB support	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• LLDP</li> </ul>	Yes
configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 as of V5.5 SP4 HF11 and HSP, STEP 7 Professional as of V15, PCS7 V9.0, PCS neo as of V3.0, PNI as of V1.0
identification & maintenance function	
<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M1 – higher level designation/location designation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M2 - installation date</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M3 - comment</li> </ul>	Yes
<b>product functions / routing</b>	
service / as PROFIBUS / data set routing	Yes
number of possible connections / with data set routing / maximum	32
<b>product functions / redundancy</b>	
product function	
<ul style="list-style-type: none"> <li>• ring redundancy</li> </ul>	Yes
product function	
<ul style="list-style-type: none"> <li>• of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul>	No
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
<b>product functions / time</b>	
product function / pass on time synchronization	Yes
protocol / is supported	
<ul style="list-style-type: none"> <li>• NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SIMATIC time synchronization (SIMATIC Time)</li> </ul>	Yes
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone	Yes

according to GB standard	
<b>accessories</b>	
accessories	Optional: C-PLUG, BusAdapter of the ET 200SP system
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li>   <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="https://new.siemens.com/global/de/produkte/automatisierung/industrielle-kommunikation.html">https://new.siemens.com/global/de/produkte/automatisierung/industrielle-kommunikation.html</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
security information	<p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>

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