



Figure similar

SIPLUS S7-1200 CP 1243-1 rail based on 6GK7243-1BX30-0XE0 with conformal coating, -25...+70 °C, OT1 with ST1/2 (+70 °C für 10 minutes), communications processor CP 1243-1 for connection of SIMATIC S7-1200 as additional Ethernet interface and for connection to control centers via telecontrol protocols (DNP3, IEC 60870, TeleControl Basic), security (firewall, VPN)

| transfer rate  |   |
|--|---|
| transfer rate  |   |
| • at the 1st interface   | 10 ... 100 Mbit/s   |
| interfaces   |   |
| number of interfaces / according to Industrial Ethernet                                    | 1   |
| number of electrical connections   |   |
| • at the 1st interface / according to Industrial Ethernet                                  | 1   |
| • for power supply   | 0   |
| type of electrical connection  |   |
| • at the 1st interface / according to Industrial Ethernet                                  | RJ45 port   |
| supply voltage, current consumption, power loss  |   |
| type of voltage / of the supply voltage  | DC  |
| supply voltage / 1 / from backplane bus  | 5 V   |
| consumed current   |   |
| • from backplane bus / at DC / at 5 V / typical  | 0.25 A  |
| power loss [W]   | 1.25 W  |
| ambient conditions   |   |
| ambient temperature  |   |
| • for vertical installation / during operation   | -25 ... +60 °C  |
| • for horizontally arranged busbars / during operation                                     | -25 ... +70 °C  |
| • during storage   | -40 ... +70 °C  |
| • during transport   | -40 ... +70 °C  |
| • note   | +70 °C for 10 min (OT1, ST1/ST2 according to EN 50155)  |
| installation altitude / at height above sea level / maximum                                | 2000 m  |
| ambient condition / relating to ambient temperature - air pressure - installation altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m)  |
| relative humidity  |   |
| • with condensation / according to IEC 60068-2-38 / maximum                                | 100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation   |
| chemical resistance / to commercially available cooling lubricants                         | Yes; incl. airborne diesel and oil droplets   |
| resistance to biologically active substances   |   |
| • conformity according to EN 60721-3-3   | Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request   |
| • conformity according to EN 60721-3-5   | Yes; Class 5B2 mold and fungal spores (excluding fauna), Class 5B3 on request   |
| resistance to chemically active substances   |   |
| • conformity according to EN 60721-3-3   | Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation. |
| • conformity according to EN 60721-3-5   | Yes; Class 5C3 (RH < 75%) including salt spray acc. to EN 60068-2-52  |

|   |   |
|---|---|
|   | (Severity level 3). The supplied plug covers must remain in place over the unused interfaces during operation!              |
| resistance to mechanically active substances  |   |
| <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> </ul>  | Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation. |
| <ul style="list-style-type: none"> <li>conformity according to EN 60721-3-5</li> </ul>  | Yes; Class 5S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation! |
| coating / for equipped printed circuit board / according to EN 61086  | Yes; Class 2 for high availability  |
| type of coating / protection against pollution according to EN 60664-3  | Yes; Protection of the type 1   |
| type of coating / for electronic devices in railway applications according to EN 50155  | Yes; Protective coating of the Class PC2 according to EN 50155:2017   |
| type of test / of the coating / according to MIL-I-46058C   | Yes; Coating discoloration during service life possible   |
| product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, class A   |
| protection class IP   | IP20  |
| <b>design, dimensions and weights</b>   |   |
| module format   | Compact module S7-1200 single width   |
| width   | 30 mm   |
| height  | 110 mm  |
| depth   | 75 mm   |
| net weight  | 0.122 kg  |
| fastening method  |   |
| <ul style="list-style-type: none"> <li>35 mm DIN-rail mounting</li> </ul>   | Yes   |
| <ul style="list-style-type: none"> <li>wall mounting</li> </ul>   | Yes   |
| <b>product features, product functions, product components / general</b>  |   |
| number of units   |   |
| <ul style="list-style-type: none"> <li>per CPU / maximum</li> </ul>   | 3   |
| <b>performance data / open communication</b>  |   |
| number of possible connections / for open communication   |   |
| <ul style="list-style-type: none"> <li>by means of T blocks / maximum</li> </ul>  | like CPU  |
| <b>performance data / S7 communication</b>  |   |
| number of possible connections / for S7 communication   |   |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>   | like CPU  |
| <b>performance data / IT functions</b>  |   |
| number of possible connections  |   |
| <ul style="list-style-type: none"> <li>as email client / maximum</li> </ul>   | 1   |
| <b>performance data / telecontrol</b>   |   |
| suitability for use   |   |
| <ul style="list-style-type: none"> <li>node station</li> </ul>  | No  |
| <ul style="list-style-type: none"> <li>substation</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>TIM control center</li> </ul>  | No  |
| control center connection   | For use with TeleControl Server Basic, WinCC and PCS7 supported   |
| <ul style="list-style-type: none"> <li>by means of a permanent connection</li> </ul>  | Connection to SCADA system via Telecontrol Server Basic and Standard Telecontrol protocols                                  |
| <ul style="list-style-type: none"> <li>note</li> </ul>  |   |
| protocol / is supported   |   |
| <ul style="list-style-type: none"> <li>DNP3</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>IEC 60870-5</li> </ul>   | Yes   |
| product function / data buffering if connection is aborted  | Yes; 64,000 events  |
| number of data points per station / maximum   | 200   |
| number of stations / for direct communication / with Telecontrol Server Basic   |   |
| <ul style="list-style-type: none"> <li>in send direction / maximum</li> </ul>   | 3   |
| <ul style="list-style-type: none"> <li>in receive direction / maximum</li> </ul>  | 15  |
| <b>performance data / teleservice</b>   |   |
| diagnostics function / online diagnostics with SIMATIC STEP 7   | Yes   |
| product function  |   |
| <ul style="list-style-type: none"> <li>program download with SIMATIC STEP 7</li> </ul>  | Yes   |
| <ul style="list-style-type: none"> <li>remote firmware update</li> </ul>  | Yes   |
| <b>product functions / management, configuration, engineering</b>   |   |

|  |   |
|--|---|
| configuration software   |   |
| • required   | STEP 7 Basic/Professional   |
| <b>product functions / diagnostics</b>   |   |
| product function / web-based diagnostics   | Yes   |
| <b>product functions / security</b>  |   |
| firewall version   | stateful inspection   |
| product function / with VPN connection   | IPsec, SINEMA RC  |
| type of encryption algorithms / with VPN connection                              | AES-256, AES-192, AES-128, 3DES-168   |
| type of authentication procedure / with VPN connection                           | Preshared key (PSK), X.509v3 certificates   |
| type of hashing algorithms / with VPN connection                                 | MD5, SHA-1, SHA-2   |
| number of possible connections / with VPN connection                             | 8   |
| product function   |   |
| • password protection for Web applications                                       | No  |
| • password protection for teleservice access                                     | No  |
| • encrypted data transmission  | Yes   |
| • ACL - IP-based   | No  |
| • ACL - IP-based for PLC/routing   | No  |
| • switch-off of non-required services  | Yes   |
| • blocking of communication via physical ports                                   | No  |
| • log file for unauthorized access   | No  |
| <b>product functions / time</b>  |   |
| protocol / is supported  |   |
| • NTP  | Yes   |
| • NTP (secure)   | Yes   |
| time synchronization   |   |
| • from NTP-server  | Yes   |
| • from control center  | Yes   |
| <b>product functions / position detection</b>                                    |   |
| certificate of suitability / railway application in accordance with EN 50121-3-2 | Yes; EMC for railway vehicles   |
| certificate of suitability / railway application in accordance with EN 50121-4   | Yes   |
| certificate of suitability / railway application in accordance with EN 50124-1   | Yes; Railway applications - Overvoltage category OV2 pollution degree PD2 rated impulse voltage UNi = 0.5 kVUNm = DC 24   |
| certificate of suitability / railway application in accordance with EN 50125-1   | Yes; Railway vehicles - See ambient conditions  |
| certificate of suitability / railway application in accordance with EN 50125-2   | Yes; Fixed-electrical installations - see ambient conditions  |
| certificate of suitability / railway application in accordance with EN 50125-3   | Yes; Signal and telecommunications equipment - see Ambient conditions vibrations and shocks: Application point outside the rails (distance 1 m to 3 m from rail)  |
| certificate of suitability / railway application in accordance with EN 50155     | Yes; Railway vehicles - temperature class OT1, ST1/ST2, horizontal mounting position  |
| certificate of suitability / railway application in accordance with EN 61373     | Yes; Railway vehicles - Vibrations and shocks Category 1 Class A/B  |
| certificate of suitability / fire protection in accordance with EN 45545-2       | Yes; Railway vehicles - for proof, see Service & Support  |
| <b>standards, specifications, approvals</b>                                      |   |
| reference code   |   |
| • according to IEC 81346-2:2019  | KEC   |
| <b>further information / internet links</b>                                      |   |
| internet link  |   |
| • to website: Selection guide for cables and connectors                          | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>   |
| • to web page: selection aid TIA Selection Tool                                  | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>   |
| • to website: Industrial communication   | <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>   |
| • to web page: SiePortal   | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>   |
| • to website: Image database   | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>   |
| • to website: CAX-Download-Manager   | <a href="https://siemens.com/cax">https://siemens.com/cax</a>   |
| • to website: Industry Online Support  | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>   |
| <b>security information</b>  |   |
| security information   | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, |

state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit [www.siemens.com/cybersecurity-industry](http://www.siemens.com/cybersecurity-industry). Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

General Product Approval

EMV

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Railway

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