



Communications processor CP 1243-7 LTE US for Connection of SIMATIC S7-1200 to LTE network in American frequency band

| transfer rate  |   |
|--|---|
| transfer rate  |   |
| <ul style="list-style-type: none"> <li>for LTE transmission                             <ul style="list-style-type: none"> <li>with downlink / maximum</li> <li>with uplink / maximum</li> </ul> </li> </ul> | 42 Mbit/s<br>5.76 Mbit/s                      |
| interfaces   |   |
| number of interfaces / acc. to Industrial Ethernet   | 0   |
| number of electrical connections   |   |
| <ul style="list-style-type: none"> <li>for external antenna(s)</li> <li>for power supply</li> </ul>  | 1<br>1  |
| number of slots  |   |
| <ul style="list-style-type: none"> <li>for SIM cards</li> </ul>  | 1   |
| type of electrical connection  |   |
| <ul style="list-style-type: none"> <li>for external antenna(s)</li> <li>for power supply</li> </ul>  | SMA socket (50 ohms)<br>3-pole terminal block |
| slot version   |   |
| <ul style="list-style-type: none"> <li>for SIM card</li> </ul>   | Standard                                      |
| wireless technology  |   |
| type of mobile wireless service  |   |
| <ul style="list-style-type: none"> <li>is supported / SMS</li> <li>is supported / GPRS</li> <li>note</li> </ul>  | Yes<br>Yes<br>GPRS (Multislot Class 10)       |
| type of wireless network / is supported  |   |
| <ul style="list-style-type: none"> <li>GSM</li> <li>UMTS</li> <li>LTE</li> </ul>   | Yes<br>Yes<br>Yes                             |
| operating frequency  |   |
| <ul style="list-style-type: none"> <li>850 MHz</li> <li>1900 MHz</li> </ul>  | Yes<br>Yes                                    |
| operating frequency / for LTE transmission   | 700 MHz, 1700 MHz                             |
| supply voltage, current consumption, power loss  |   |
| type of voltage / of the supply voltage  | DC  |
| supply voltage / external  | 24 V  |
| 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  | 20 %  |
| consumed current   |   |

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| <ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / typical</li> </ul>     | 0.1 A  |
| <ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / maximum</li> </ul>     | 0.22 A   |
| <b>ambient conditions</b>  |  |
| ambient temperature  |  |
| <ul style="list-style-type: none"> <li>• for vertical installation / during operation</li> </ul>                 | -20 ... +60 °C                                 |
| <ul style="list-style-type: none"> <li>• for horizontally arranged busbars / during operation</li> </ul>         | -20 ... +70 °C                                 |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>   | -40 ... +70 °C                                 |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>   | -40 ... +70 °C                                 |
| relative humidity  |  |
| <ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul> | 95 %   |
| protection class IP  | IP20   |
| <b>design, dimensions and weights</b>  |  |
| module format  | Compact module S7-1200 single width            |
| width  | 30 mm  |
| height   | 100 mm   |
| depth  | 75 mm  |
| net weight   | 0.133 kg                                       |
| fastening method   |  |
| <ul style="list-style-type: none"> <li>• 35 mm top hat DIN rail mounting</li> </ul>                              | Yes  |
| <ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>   | No   |
| <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</b>  |  |
| number of users/telephone numbers / definable / maximum  | 10   |
| <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 / 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>• substation</li> </ul>   | Yes  |
| control center connection  |  |
| <ul style="list-style-type: none"> <li>• by means of a permanent connection</li> </ul>                           | Telecontrol Server Basic supported             |
| <ul style="list-style-type: none"> <li>• by means of demand-oriented connection</li> </ul>                       | supported                                      |
| <ul style="list-style-type: none"> <li>• note</li> </ul>   | Connection to SCADA system using OPC interface |
| protocol / is supported  |  |
| <ul style="list-style-type: none"> <li>• DNP3</li> </ul>   | No   |
| <ul style="list-style-type: none"> <li>• IEC 60870-5</li> </ul>  | No   |
| product function / data buffering if connection is aborted   | Yes; 64,000 events                             |
| 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>  |  |

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| configuration software<br>• 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, DES-56   |
| type of authentication procedure / with VPN connection   | Preshared key (PSK), X.509v3 certificates   |
| type of hashing algorithms / with VPN connection   | MD5, SHA-1  |
| number of possible connections / with VPN connection   | 1   |
| product function<br>• password protection for teleservice access<br>• encrypted data transmission  | Yes<br>Yes  |
| <b>product functions / time</b>  |   |
| protocol / is supported<br>• NTP   | Yes   |
| time synchronization<br>• from control center  | Yes   |
| <b>further information / internet-Links</b>  |   |
| Internet-Link<br>• to website: Industrial communication<br>• to website: Industry Mall<br>• to website: Information and Download Center<br>• to website: Image database<br>• to website: CAx-Download-Manager<br>• to website: Industry Online Support | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><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 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) |

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