

### product type designation



### CP 1243-7 LTE EU

Communications processor CP 1243-7 LTE EU for Connection of SIMATIC S7-1200 to LTE network in European frequency range.

### transfer rate

#### transfer rate

|                           |             |
|---------------------------|-------------|
| • for LTE transmission    |             |
| — with downlink / maximum | 42 Mbit/s   |
| — with uplink / maximum   | 5.76 Mbit/s |

### interfaces

|   |                       |
|---|-----------------------|
| number of interfaces / according to Industrial Ethernet | 0                     |
| number of electrical connections                        |                       |
| • for external antenna(s)                               | 1                     |
| • for power supply                                      | 1                     |
| number of slots   |                       |
| • for SIM cards   | 1                     |
| type of electrical connection                           |                       |
| • for external antenna(s)                               | SMA socket (50 ohms)  |
| • for power supply                                      | 3-pole terminal block |
| slot version  |                       |
| • for SIM card  | Standard              |

### wireless technology

|  |                             |
|--|-----------------------------|
| type of mobile wireless service              |                             |
| • is supported / SMS                         | Yes                         |
| • is supported / GPRS                        | Yes                         |
| • note                                       | GPRS (Multislot Class 10)   |
| type of wireless network / is supported      |                             |
| • GSM  | Yes                         |
| • UMTS                                       | Yes                         |
| • LTE  | Yes                         |
| operating frequency / for GSM transmission   | 900 MHz, 1800 MHz           |
| operating frequency / with UMTS transmission | 900 MHz, 2100 MHz           |
| operating frequency / for LTE transmission   | 800 MHz, 1800 MHz, 2600 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   |        |
| • from external supply voltage / at DC / at 24 V / typical | 0.1 A  |
| • from external supply voltage / at DC / at 24 V / maximum | 0.22 A |

## ambient conditions

|  |                |
|--|----------------|
| ambient temperature  |                |
| • for vertical installation / during operation                 | -20 ... +60 °C |
| • for horizontally arranged busbars / during operation         | -20 ... +70 °C |
| • during storage   | -40 ... +70 °C |
| • during transport   | -40 ... +70 °C |
| relative humidity  |                |
| • at 25 °C / without condensation / during operation / maximum | 95 %           |
| protection class IP  | IP20           |

## design, dimensions and weights

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| module format                     | Compact module S7-1200 single width |
| width                             | 30 mm                               |
| height                            | 100 mm                              |
| depth                             | 75 mm                               |
| net weight                        | 0.133 kg                            |
| fastening method                  |                                     |
| • 35 mm top hat DIN rail mounting | Yes                                 |
| • S7-300 rail mounting            | No                                  |
| • wall mounting                   | Yes                                 |

## product features, product functions, product components / general

|                     |   |
|---------------------|---|
| number of units     |   |
| • per CPU / maximum | 3 |

## performance data

|   |    |
|---|----|
| number of users/telephone numbers / definable / maximum | 10 |
|---|----|

## performance data / open communication

|   |          |
|---|----------|
| number of possible connections / for open communication |          |
| • by means of T blocks / maximum                        | like CPU |

## performance data / IT functions

|                                |   |
|--------------------------------|---|
| number of possible connections |   |
| • as email client / maximum    | 1 |

## performance data / telecontrol

|   |  |
|---|--|
| suitability for use   |  |
| • substation  | Yes  |
| control center connection   | Telecontrol Server Basic supported             |
| • by means of a permanent connection  | supported                                      |
| • by means of demand-oriented connection                                      | supported                                      |
| • note  | Connection to SCADA system using OPC interface |
| protocol / is supported   |  |
| • DNP3  | Yes  |
| • IEC 60870-5   | Yes  |
| product function / data buffering if connection is aborted                    | Yes; 64,000 events                             |
| number of stations / for direct communication / with Telecontrol Server Basic |  |
| • in send direction / maximum   | 3  |
| • in receive direction / maximum  | 15   |

## performance data / teleservice

|   |     |
|---|-----|
| diagnostics function / online diagnostics with SIMATIC STEP 7 | Yes |
| product function  |     |
| • program download with SIMATIC STEP 7                        | Yes |
| • remote firmware update                                      | Yes |

## product functions / management, configuration, engineering

|                        |                           |
|------------------------|---------------------------|
| configuration software |                           |
| • required             | STEP 7 Basic/Professional |

## product functions / diagnostics

|  |     |
|--|-----|
| product function / web-based diagnostics | Yes |
|--|-----|

## product functions / security

|   |   |
|---|---|
| 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   |  |
| <ul style="list-style-type: none"> <li>password protection for teleservice access</li> <li>encrypted data transmission</li> </ul>  | Yes<br>Yes   |
| <b>product functions / time</b>  |  |
| protocol / is supported  |  |
| <ul style="list-style-type: none"> <li>NTP</li> </ul>  | Yes  |
| time synchronization   |  |
| <ul style="list-style-type: none"> <li>from control center</li> </ul>  | Yes  |
| <b>standards, specifications, approvals / hazardous environments</b>   |  |
| certificate of suitability / CCC / for hazardous zone according to GB standard   | Yes  |
| <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><br><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>  |  |
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