

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 | |
| <ul style="list-style-type: none"> for LTE transmission <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> for external antenna(s) 1 for power supply 1 | |
| number of slots | |
| <ul style="list-style-type: none"> for SIM cards 1 | |
| type of electrical connection | |
| <ul style="list-style-type: none"> for external antenna(s) SMA socket (50 ohms) for power supply 3-pole terminal block | |
| slot version | |
| <ul style="list-style-type: none"> for SIM card Standard | |
| wireless technology | |
| type of mobile wireless service / is supported | |
| <ul style="list-style-type: none"> SMS Yes GPRS Yes GPRS (Multislot Class 10) | |
| type of wireless network / is supported | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport | <p>-20 ... +60 °C</p> <p>-20 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> |
| relative humidity | |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • 35 mm DIN-rail mounting • S7-300 rail mounting • wall mounting | <p>Yes</p> <p>No</p> <p>Yes</p> |
| product features, product functions, product components / general | |
| number of units | |
| <ul style="list-style-type: none"> • per CPU / maximum | 3 |
| product functions / cloud connectivity | |
| protocol / is supported | |
| <ul style="list-style-type: none"> • Message Queuing Telemetry Transport (MQTT) • Advanced Message Queuing Protocol (AMQP) | <p>Yes</p> <p>No</p> |
| product function / for cloud connectivity | |
| <ul style="list-style-type: none"> • trigger management • time stamping | <p>Yes</p> <p>Yes</p> |
| product feature / for cloud connectivity / buffered message frame memory | No |
| number of active connections / for cloud connectivity | 1 |
| number of data points per device / maximum | 500 |
| performance data | |
| number of users/telephone numbers / definable / maximum | 10 |
| performance data / open communication | |
| number of possible connections / for open communication | |
| <ul style="list-style-type: none"> • by means of T blocks / maximum | like CPU |
| performance data / IT functions | |
| number of possible connections | |
| <ul style="list-style-type: none"> • as email client / maximum | 1 |
| performance data / telecontrol | |
| suitability for use | |
| <ul style="list-style-type: none"> • substation | Yes |
| control center connection | Telecontrol Server Basic |
| <ul style="list-style-type: none"> • by means of a permanent connection • by means of demand-oriented connection • note | <p>supported</p> <p>supported</p> <p>Connection to SCADA system using OPC interface</p> |
| protocol / is supported | |
| <ul style="list-style-type: none"> • DNP3 • IEC 60870-5 | <p>Yes</p> <p>Yes</p> |
| 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"> • in send direction / maximum • in receive direction / maximum | <p>3</p> <p>15</p> |
| performance data / teleservice | |
| diagnostics function / online diagnostics with SIMATIC STEP 7 | Yes |
| product function | |
| <ul style="list-style-type: none"> • program download with SIMATIC STEP 7 • remote firmware update | <p>Yes</p> <p>Yes</p> |

| product functions / management, configuration, engineering | |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| configuration software | |
| <ul style="list-style-type: none"> required | STEP 7 Basic/Professional |
| product function / is supported / identification link | Yes; acc. to IEC 61406-1:2022 |
| 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"> password protection for teleservice access | Yes |
| <ul style="list-style-type: none"> encrypted data transmission | Yes |
| product functions / time | |
| protocol / is supported | |
| <ul style="list-style-type: none"> NTP | Yes |
| time synchronization | |
| <ul style="list-style-type: none"> from control center | Yes |
| standards, specifications, approvals | |
| reference code | |
| <ul style="list-style-type: none"> according to IEC 81346-2:2019 | KEC |
| standards, specifications, approvals / Environmental Product Declaration | |
| global warming potential [CO2 eq] | |
| <ul style="list-style-type: none"> total | 180.78 kg |
| <ul style="list-style-type: none"> during manufacturing | 15.34 kg |
| <ul style="list-style-type: none"> during operation | 165.23 kg |
| <ul style="list-style-type: none"> after end of life | 0.21 kg |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| <ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| <ul style="list-style-type: none"> to website: Industrial communication | https://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> to web page: SiePortal | https://sieportal.siemens.com/ |
| <ul style="list-style-type: none"> to website: Image database | https://www.automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> to website: CAx-Download-Manager | https://siemens.com/cax |
| <ul style="list-style-type: none"> to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
| security information | <p>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. 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)</p> |
| Approvals / Certificates | |
| General Product Approval | For use in hazardous locations |



EG-Konf.

[Declaration of Con-
formity](#)



UL



RCM



IECEX



ATEX

| | | |
|-------------------------------------|---------------------------------------------------|-------------|
| For use in hazard- ous locations | Radio Equipment Type Approval Certi- ficate | Environment |
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[Miscellaneous](#)

[Confirmation](#)

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