

product type designation



CP 1242-7 V2

Communications processor CP 1242-7 V2 for connection of SIMATIC S7-1200 to GSM/GPRS network; Web server access to CPU, data point configuration, observe national approvals.

| transfer rate | |
|---|---|
| transfer rate | |
| <ul style="list-style-type: none"> for GPRS transmission <ul style="list-style-type: none"> — with downlink / maximum — with uplink / maximum | 86 kbit/s 43 kbit/s |
| interfaces | |
| number of interfaces / according to Industrial Ethernet | 0 |
| number of electrical connections | |
| <ul style="list-style-type: none"> for external antenna(s) for power supply | 1 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) for power supply | SMA socket (50 ohms) 3-pole terminal block |
| slot version | |
| <ul style="list-style-type: none"> for SIM card | Standard |
| wireless technology | |
| type of mobile wireless service | |
| <ul style="list-style-type: none"> is supported / SMS is supported / GPRS note | Yes Yes GPRS (Multislot Class 10) |
| type of wireless network / is supported | |
| <ul style="list-style-type: none"> GSM UMTS LTE | Yes No No |
| operating frequency | |
| <ul style="list-style-type: none"> 850 MHz 900 MHz 1800 MHz 1900 MHz | Yes Yes Yes Yes |
| transmit power | |
| <ul style="list-style-type: none"> at operating frequency 900 MHz at operating frequency 1800 MHz at operating frequency 1900 MHz | 2 W 1 W 1 W |
| 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 |
| power loss [W] | 2.4 W |
| 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 | |
| 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 | No |
| • IEC 60870-5 | No |
| 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 |

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| product functions / management, configuration, engineering | |
| configuration software | |
| • required | STEP 7 Basic/Professional |
| product functions / diagnostics | |
| product function / web-based diagnostics | Yes |
| product functions / security | |
| product function | |
| • password protection for teleservice access | Yes |
| • encrypted data transmission | Yes |
| product functions / time | |
| protocol / is supported | |
| • NTP | Yes |
| time synchronization | |
| • from control center | Yes |
| standards, specifications, approvals / hazardous environments | |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |
| further information / internet-Links | |
| Internet-Link | |
| • to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx-Download-Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |
| security information | |
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