# SIEMENS

**Data sheet**                                                    **6GK7242-7KX31-0XE0**

| 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 | |
| ● for GPRS transmission | |
| — with downlink / maximum | 86 kbit/s |
| — with uplink / maximum | 43 kbit/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 | No |
| ● LTE | No |
| operating frequency | |
| ● 850 MHz | Yes |
| ● 900 MHz | Yes |
| ● 1800 MHz | Yes |
| ● 1900 MHz | Yes |
| transmit power | |
| ● at operating frequency 900 MHz | 2 W |
| ● at operating frequency 1800 MHz | 1 W |
| ● at operating frequency 1900 MHz | 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 % |

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| | |
|---|---|
| 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 |
| ● 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 |

## product functions / management, configuration, engineering

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

## product functions / diagnostics

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| 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 |
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