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.

ture we for white	
transfer rate	
transfer rate	
• for GPRS transmission	2011/1/
— 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 %
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
	-40 +70 °C
during storage	
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	s / general
number of units	
number of units per CPU / maximum 	3
• per CPU / maximum	3
per CPU / maximum performance data	
per CPU / maximum performance data number of users/telephone numbers / definable / maximum	3 10
per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication	
per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication number of possible connections / for open communication	
per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication	
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per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum	10
• per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum performance data / IT functions	10
• per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum performance data / IT functions number of possible connections	10 like CPU
• per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum performance data / IT functions number of possible connections • as email client / maximum	10 like CPU
• per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum performance data / IT functions number of possible connections • as email client / maximum performance data / telecontrol	10 like CPU 1
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• per CPU / maximum performance data number of users/telephone numbers / definable / maximum performance data / open communication number of possible connections / for open communication • by means of T blocks / maximum performance data / IT functions number of possible connections • as email client / maximum performance data / telecontrol control center connection • by means of a permanent connection	10 like CPU 1 Telecontrol Server Basic supported
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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		
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 http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)	
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