## SIEMENS

## Data sheet

## 6GK7142-7BX00-0AX0



LOGO! CMR2020 communication module for connection LOGO! 8 to GSM/GPRS network; 1 RJ45 port for Ind. Ethernet connection to LOGO! 8; 2xDI; 2xDO; write/read access to LOGO! variables; SMS dispatch/ receiving of text messages; email dispatch; position detection GPS; time synchronization/ forwarding with real time clock; Configuration/diagnostics via web interface; Remote access via OpenVPN/HTTPs, DynDNS; Observe national approval! Manual available as a download .

transfer rate	
transfer rate	
<ul> <li>at the 1st interface</li> </ul>	10 100 Mbit/s
<ul> <li>for GPRS transmission</li> </ul>	
— with downlink / maximum	80 kbit/s
— with uplink / maximum	40 kbit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	1
<ul> <li>for external antenna(s)</li> </ul>	2
• for power supply	1
number of slots	
<ul> <li>for SIM cards</li> </ul>	1
<ul> <li>for memory cards</li> </ul>	1
type of electrical connection	
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	RJ45 port
type of electrical connection	
<ul> <li>for external antenna(s)</li> </ul>	SMA socket (50 ohms)
• for power supply	3-pole terminal block
type of antenna	·
at connection 1 / connectable	GPS Antenna
<ul> <li>at connection 2 / connectable</li> </ul>	Mobile radio antenna (GPRS/GSM)
wire length / of antenna wire / maximum	15 m
slot version	
<ul> <li>for SIM card</li> </ul>	Standard
<ul> <li>of the memory card</li> </ul>	microSD
storage capacity / of the memory card / maximum	32 Gibyte
performance class of the memory card / minimum	Class 6
necessary	
type of file system / type of file system	FAT32
signal inputs/outputs	
number of electrical connections / for digital input signals	2
type of electrical connection / for digital input signals	3 pole terminal block
digital input version	not galvanically isolated, not debounced
input voltage / at digital input	
• with signal <0> / at DC	0 5 V
• for signal <1> / at DC	8.5 24 V
input current / at digital input / for signal <1> / maximum	5.5 mA

number of electrical connections / for digital output signals	2
type of electrical connections / for digital output signals	2 3 pole terminal block
digital output version	transistor, not potential seperated
output voltage / at digital output	
• for signal <1> <sup>1)</sup>	12 24 V
• for signal <0>	05V
output current / at digital output / for signal <1> / maximum	0.3 A
	0.5 A
wireless technology	
type of mobile wireless service	
• is supported / SMS	Yes
• is supported / GPRS	Yes
• note	GPRS (Multislot Class 10, Mobile Station Class B)
type of wireless network / is supported	
• GSM	Yes
• UMTS	No
• LTE	No
operating frequency / for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 MHz
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
supply voltage / external	12 24 V
supply voltage / external / at DC	12 24 V
supply voltage / for GPS antenna / maximum	3.8 V; at 5 mA: 3,575 V / at 10 mA: 3,35 V / at 15 mA: 3,125 V
relative positive tolerance / at DC / at 24 V	20 %
relative negative tolerance / at DC / at 12 V	10 %
consumed current	
<ul> <li>from external supply voltage / at DC / at 12 V / maximum</li> </ul>	0.25 A
<ul> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.125 A
output current / for GPS antenna / maximum	15 mA
power loss [W]	3 W
ambient conditions	
ambient temperature	
ambient temperature <ul> <li>during operation</li> </ul>	-20 +70 °C
	-20 +70 °C -40 +85 °C
during operation	
during operation     during storage	-40 +85 °C
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-40 +85 °C
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation /</li> </ul>	-40 +85 °C -40 +85 °C
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity         <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> </ul>	-40 +85 °C -40 +85 °C 95 %
• during operation     • during storage     • during transport  relative humidity     • at 25 °C / without condensation / during operation /     maximum  protection class IP	-40 +85 °C -40 +85 °C 95 %
during operation     during storage     during transport relative humidity     at 25 °C / without condensation / during operation /     maximum protection class IP design, dimensions and weights	-40 +85 °C -40 +85 °C 95 % IP20
• during operation     • during storage     • during transport  relative humidity     • at 25 °C / without condensation / during operation /     maximum  protection class IP  design, dimensions and weights  module format width	-40 +85 °C -40 +85 °C 95 % IP20 Compact module, for rail mounting
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>relative humidity         <ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul> </li> <li>protection class IP</li> <li>design, dimensions and weights         <ul> <li>module format</li> <li>width</li> <li>height</li> </ul> </li> </ul>	-40 +85 °C -40 +85 °C 95 % IP20 Compact module, for rail mounting 71.5 mm
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during operation     during storage     during transport  relative humidity         • at 25 °C / without condensation / during operation /         maximum  protection class IP  design, dimensions and weights  module format  width height depth net weight fastening method	-40 +85 °C -40 +85 °C 95 % IP20 Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg
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number of events / for manitaring / definable / mavimum	32
number of events / for monitoring / definable / maximum number of actions / definable / maximum	32 32
number of assignments / definable / maximum	32
number of alias SMS commands / definable / maximum	20
number of constants / definable / maximum	10
performance data / IT functions	10
number of possible connections	2
as server / by means of HTTP / maximum	
<ul> <li>as server / by means of HTTPS / maximum</li> </ul>	2; http and https can be combined (max. number of 2 connections cannot be exceeded). Max. one connection via https is possible on the
	mobile wireless interface.
as email client / maximum	1
number of free texts / for emails and SMS / maximum	20
number of characters / per free text for emails or SMS /	160
maximum	
performance data / teleservice	
product function	
<ul> <li>remote firmware update</li> </ul>	Yes
remote configuration	Yes
product functions / management, configuration, engineeri	ng
configuration software	
required	Web interface
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / security	
operating mode / Virtual Private Network (VPN)	Yes; Open VPN Server in PSK mode
product function / with VPN connection	OpenVPN PSK
type of encryption algorithms / with VPN connection	AES-128 CBC
type of authentication / with Virtual Private Network / PSK	Yes
type of hashing algorithms / with VPN connection	SHA-256
number of possible connections / with VPN connection	1
product function	
<ul> <li>password protection for Web applications</li> </ul>	Yes
<ul> <li>password protection for VPN</li> </ul>	Yes
<ul> <li>encrypted data transmission</li> </ul>	Yes
<ul> <li>switch-off of non-required services</li> </ul>	Yes
<ul> <li>log file for unauthorized access</li> </ul>	Yes
product functions / time	
product function / pass on time synchronization	Yes
accuracy / of the hardware real time clock / per day /	7.5 s
maximum	
time synchronization	Voo
from NTP-server     from GPS signal	Yes
from GPS-signal     from mobile petwork provider	Yes
<ul> <li>from mobile network provider</li> <li>PC</li> </ul>	Yes
manual setting	Yes
, in the second s	
product functions / position detection	
product function	Von
position detection with GPS	Yes
• pass on position data	
standards, specifications, approvals / hazardous environm	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
	http://www.siemens.com/tia-selection-tool
<ul> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
to website: Industrial communication     to website: Industry Mall	https://www.siemens.com/simalic-net
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
	<u>וועף.//www.siemens.com/industry/iniocenter</u>

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last modified:

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<sup>1)</sup> Value of the actual supply voltage