

Data sheet

6GK7142-7BX00-0AX0

product type designation



CMR2020

-- spare part -- LOGO! CMR2020 communication module for connection of LOGO! 8 to GSM/GPRS network; 1 RJ45 port for Industrial Ethernet connection to LOGO! 8; 2xDI; 2xDC; write/read access to LOGO! variables; SMS dispatch/reception; 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 style="list-style-type: none"> at the 1st interface 	10 ... 100 Mbit/s
<ul style="list-style-type: none"> for GPRS transmission <ul style="list-style-type: none"> with downlink / maximum with uplink / maximum 	80 kbit/s 40 kbit/s

interfaces

number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet for external antenna(s) for power supply 	1 2 1
number of slots	
<ul style="list-style-type: none"> for SIM cards for memory cards 	1 1
type of electrical connection	
<ul style="list-style-type: none"> at the 1st interface / according to Industrial Ethernet 	RJ45 port
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
type of antenna	
<ul style="list-style-type: none"> at connection 1 / connectable at connection 2 / connectable 	GPS Antenna Mobile radio antenna (GPRS/GSM)
wire length / of antenna cable / maximum	15 m
slot version	
<ul style="list-style-type: none"> for SIM card of the memory card 	Standard microSD
storage capacity / of the memory card / maximum	32 Gbyte
performance class of the memory card / minimum necessary	Class 6
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	
<ul style="list-style-type: none"> with signal <0> / at DC for signal <1> / at DC 	0 ... 5 V 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 connection / for digital output signals	3 pole terminal block
digital output version	transistor, not potential seperated
output voltage / at digital output <ul style="list-style-type: none"> • for signal <1> ¹⁾ • for signal <0> 	12 ... 24 V 0 ... 5 V
output current / at digital output / for signal <1> / maximum	0.3 A
wireless technology	
type of mobile wireless service / is supported <ul style="list-style-type: none"> • SMS • GPRS • 	Yes Yes GPRS (Multislot Class 10, Mobile Station Class B)
type of wireless network / is supported <ul style="list-style-type: none"> • GSM • UMTS • LTE 	Yes No 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 style="list-style-type: none"> • from external supply voltage / at DC / at 12 V / maximum • from external supply voltage / at DC / at 24 V / maximum 	0.25 A 0.125 A
output current / for GPS antenna / maximum	15 mA
power loss [W]	3 W
ambient conditions	
ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport 	-20 ... +70 °C -40 ... +85 °C -40 ... +85 °C
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, for rail mounting
width	71.5 mm
height	90 mm
depth	58.2 mm
net weight	0.16 kg
fastening method <ul style="list-style-type: none"> • 35 mm DIN-rail mounting • wall mounting 	Yes Yes
product features, product functions, product components / general	
product function <ul style="list-style-type: none"> • DynDNS client • no-ip.com client 	Yes Yes
performance data	
number of possible connections / to the LOGO! logic module	1
number of users/telephone numbers/email addresses / definable / maximum	20
number of user groups / definable / maximum	10
number of signals / for monitoring or device control / definable / maximum	32
number of events / for monitoring / definable / maximum	32

number of actions / definable / maximum	32
number of coordinations / definable / maximum	32
number of alias SMS commands / definable / maximum	20
number of constants / definable / maximum	10
performance data / IT functions	
number of possible connections	
<ul style="list-style-type: none"> as server / by means of HTTP / maximum as server / by means of HTTPS / maximum 	2 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.
<ul style="list-style-type: none"> 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 / maximum	160
performance data / teleservice	
product function	
<ul style="list-style-type: none"> remote firmware update remote configuration 	Yes Yes
product functions / management, configuration, engineering	
configuration software	
<ul style="list-style-type: none"> 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 style="list-style-type: none"> password protection for Web applications password protection for VPN encrypted data transmission switch-off of non-required services log file for unauthorized access 	Yes Yes Yes Yes Yes
product functions / time	
product function / pass on time synchronization	Yes
accuracy / of the hardware real time clock / per day / maximum	7.5 s
time synchronization	
<ul style="list-style-type: none"> from NTP-server from GPS-signal from mobile network provider PC manual setting 	Yes Yes Yes Yes Yes
product functions / position detection	
product function	
<ul style="list-style-type: none"> position detection with GPS pass on position data 	Yes Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet links	
internet link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://www.automation.siemens.com/bilddb https://siemens.com/cax https://support.industry.siemens.com

security information

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Approvals / Certificates

General Product Approval



[China RoHS](#)



[KC](#)

General Product Approval

For use in hazardous locations

Radio Equipment Type Approval Certificate



[FM](#)

[CCC-Ex](#)

[Miscellaneous](#)

¹⁾ Value of the actual supply voltage

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