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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; 2xDO; 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

product brand name	LOGO!
transfer rate	
transfer rate	
● at the 1st interface	10 ... 100 Mbit/s
● for GPRS transmission	
— 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	
● at the 1st interface / according to Industrial Ethernet	1
● for external antenna(s)	2
● for power supply	1
number of slots	
● for SIM cards	1
● for memory cards	1
type of electrical connection	
● at the 1st interface / according to Industrial Ethernet	RJ45 port
type of electrical connection	
● for external antenna(s)	SMA socket (50 ohms)
● for power supply	3-pole terminal block
type of antenna	
● at connection 1 / connectable	GPS Antenna
● at connection 2 / connectable	Mobile radio antenna (GPRS/GSM)
wire length / of antenna cable / maximum	15 m
slot version	
● for SIM card	Standard
● of the memory card	microSD
storage capacity / of the memory card / maximum	32 Gibyte
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	
● with signal <0> / at DC	0 ... 5 V
● for signal <1> / at DC	8.5 ... 24 V

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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	
● for signal <1> [1)]	12 ... 24 V
● for signal <0>	0 ... 5 V
output current / at digital output / for signal <1> / maximum	0.3 A
wireless technology	
type of mobile wireless service / is supported	
● SMS	Yes
● GPRS	Yes
●	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	
● from external supply voltage / at DC / at 12 V / maximum	0.25 A
● from external supply voltage / at DC / at 24 V / maximum	0.125 A
output current / for GPS antenna / maximum	15 mA
power loss [W]	3 W
ambient conditions	
ambient temperature	
● during operation	-20 ... +70 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
relative humidity	
● 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	
● 35 mm DIN-rail mounting	Yes
● wall mounting	Yes
product features, product functions, product components / general	
product function	
● DynDNS client	Yes
● no-ip.com client	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

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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	
● as server / by means of HTTP / maximum	2
● as server / by means of HTTPS / maximum	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 / maximum	160
performance data / teleservice	
product function	
● remote firmware update	Yes
● remote configuration	Yes
product functions / management, configuration, engineering	
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	
● password protection for Web applications	Yes
● password protection for VPN	Yes
● encrypted data transmission	Yes
● switch-off of non-required services	Yes
● log file for unauthorized access	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	
● from NTP-server	Yes
● from GPS-signal	Yes
● from mobile network provider	Yes
● PC	Yes
● manual setting	Yes
product functions / position detection	
product function	
● position detection with GPS	Yes
● pass on position data	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	
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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security information

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Approvals / Certificates

General Product Approval






China RoHS




General Product Approval



China RoHS

For use in hazardous locations





FM
CCC-Ex

Radio Equipment Type Approval Certificate

Miscellaneous Miscellaneous

[1]) Value of the actual supply voltage

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