



LOGO! CMR2020 communication module for connection LOGO! 8 to GSM/GPRS network; 1 RJ45 port for Ind. Ethernet connection to LOGO! 8; 2xDI; 2xDQ; Write/read access to LOGO! tags; Text message sending/receipt; E-mail sending; 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"> <li>at the 1st interface</li> </ul>	10 ... 100 Mbit/s
<ul style="list-style-type: none"> <li>for GPRS transmission</li> <li>— with downlink / maximum</li> <li>— with uplink / maximum</li> </ul>	80 kbit/s 40 kbit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> <li>for external antenna(s)</li> <li>for power supply</li> </ul>	1 2 1
number of slots	
<ul style="list-style-type: none"> <li>for SIM cards</li> <li>for memory cards</li> </ul>	1 1
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to Industrial Ethernet</li> </ul>	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> <li>for external antenna(s)</li> <li>for power supply</li> </ul>	SMA socket (50 ohms) 3-pole terminal block
type of antenna	
<ul style="list-style-type: none"> <li>at connection 1 / connectable</li> <li>at connection 2 / connectable</li> </ul>	GPS Antenna Mobile radio antenna (GPRS/GSM)
wire length / of antenna wire / maximum	15 m
slot version	
<ul style="list-style-type: none"> <li>for SIM card</li> <li>of the memory card</li> </ul>	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"> <li>with signal &lt;0&gt; / at DC</li> <li>for signal &lt;1&gt; / at DC</li> </ul>	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 separated
output voltage / at digital output	
• for signal <1> <sup>1)</sup>	12 ... 24 V
• for signal <0>	0 ... 5 V
output current / at digital output / for signal <1> / maximum	0.3 A
<b>wireless technology</b>	
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
<b>supply voltage, current consumption, power loss</b>	
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
<b>ambient conditions</b>	
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
<b>design, dimensions and weights</b>	
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 top hat DIN rail mounting	Yes
• wall mounting	Yes
<b>product features, product functions, product components / general</b>	
product function	
• DynDNS client	Yes
• no-ip.com client	Yes
<b>performance data</b>	
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 assignments / definable / maximum	32
number of alias SMS commands / definable / maximum	20
number of constants / definable / maximum	10
<b>performance data / IT functions</b>	
number of possible connections	2
<ul style="list-style-type: none"> <li>• as server / by means of HTTP / maximum</li> <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.
<ul style="list-style-type: none"> <li>• as email client / maximum</li> </ul>	1
number of free texts / for emails and SMS / maximum	20
number of characters / per free text for emails or SMS / maximum	160
<b>performance data / teleservice</b>	
product function	
<ul style="list-style-type: none"> <li>• remote firmware update</li> <li>• remote configuration</li> </ul>	Yes Yes
<b>product functions / management, configuration, engineering</b>	
configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	Web interface
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / security</b>	
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"> <li>• password protection for Web applications</li> <li>• password protection for VPN</li> <li>• encrypted data transmission</li> <li>• switch-off of non-required services</li> <li>• log file for unauthorized access</li> </ul>	Yes Yes Yes Yes Yes
<b>product functions / time</b>	
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"> <li>• from NTP-server</li> <li>• from GPS-signal</li> <li>• from mobile network provider</li> <li>• PC</li> <li>• manual setting</li> </ul>	Yes Yes Yes Yes Yes
<b>product functions / position detection</b>	
product function	
<ul style="list-style-type: none"> <li>• position detection with GPS</li> <li>• pass on position data</li> </ul>	Yes Yes
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>

- to website: Image database
- to website: CAx-Download-Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<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)

<sup>a</sup>

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

**last modified:**

8/3/2021 