

Product type designation



**LOGO! CMR2020**  
LOGO! CMR2020 COMMUNICATION MODULE FOR CONNECT.  
LOGO! 0BA8 TO GSM/GPRS NET; 1 RJ45 PORT FOR IND.  
ETHERNET-CONNECTION TO LOGO! 0BA8; 2XDI;2XDO;  
READ/WRITE-ACCESS TO LOGO!-VARIABLES; SMS  
SEND/RECEIVE; POSITION RECOGN. GPS; TIME SYN./FORWAR-  
DING WITH REAL TIME CLOCK; CONFIG./DIAG.PER WEB-  
INTERFACE; NOTE NATIONAL APPROVALS! MANUAL  
AVAILABLE AS DOWNLOAD.

Transmission rate	
Transfer rate	
• at the 1st interface	10 ... 100 Mbit/s
• for GPRS transmission / with downlink / maximum	80 kbit/s
• for GPRS transmission / with uplink / maximum	40 kbit/s
Interfaces	
Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	1
• for external antenna(s)	2
• for power supply	1
Number of slots	
• for SIM cards	1
• for memory cards	1
Design of the electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port
• for power supply	3-pole terminal block
• for external antenna(s)	SMA socket (50 ohms)
Slot version	
• for SIM card	Standard
• of the memory card	microSD
Storage capacity / of the memory card / maximum	8 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
Design of the electrical connection / for digital input signals	3 pole terminal block
Digital input version	not potential separated
Input voltage / at digital input <ul style="list-style-type: none"> <li>• with signal &lt;0&gt; / for DC</li> <li>• for signal &lt;1&gt; / for 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
Design of the electrical connection / for digital output signals	3 pole terminal block
Digital output version	transistor, not potential separated
Output voltage / at digital output <ul style="list-style-type: none"> <li>• for signal &lt;1&gt;</li> <li>• for signal &lt;0&gt;</li> </ul>	12 ... 24 V; value of the actual supply voltage 0 ... 5 V
Output current / at digital output / for signal <1> / maximum	0.3 A

#### Wireless technology

Type of mobile wireless service <ul style="list-style-type: none"> <li>• is supported</li> <li>• Note</li> </ul>	SMS, GPRS GPRS (Multislot Class 10, Mobile Station Class B)
Type of mobile network / is supported	GSM
Operating frequency <ul style="list-style-type: none"> <li>• for GSM transmission</li> <li>• with UMTS transmission</li> <li>• for LTE transmission</li> </ul>	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 / 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 / for DC / at 24 V	20 %
Consumed current <ul style="list-style-type: none"> <li>• from external supply voltage / for DC / at 12 V / maximum</li> <li>• from external supply voltage / for DC / at 24 V / maximum</li> </ul>	0.25 A 0.125 A

Output current / for GPS antenna / maximum	15 mA
Active power loss	3 W
Permitted 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 weight	
Module format	Compact module, for rail mounting
Width	71.5 mm
Height	90 mm
Depth	58.2 mm
Net weight	0.16 kg
Mounting type	
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes
Performance data	
Product functions / management, configuration	
Configuration software	
• required	WEB-Interface
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / Security	
Product function	
• password protection for Web applications	Yes
• switch-off of non-required services	Yes
• log file for unauthorized access	Yes
Product functions / Time	
Product function / pass on time synchronization	Yes
Product functions / Position recognition	
Product function / position detection with GPS	Yes
Further Information / Internet Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>

- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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## Security information

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