

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
— 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
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	RJ45 port

• for external antenna(s) • for power supply	SMA socket (50 ohms) 3-pole terminal block
Type of antenna • at port 1 / connectable • at port 2 / connectable	GPS Antenna Mobile radio antenna (GPRS/GSM)
Wire length / of antenna cable / maximum	15 m
Slot version • for SIM card • of the memory card	Standard 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
Type of electrical connection / for digital input signals	3 pole terminal block
Digital input version	not potential seperated
Input voltage / at digital input • 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 • 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 • Note	SMS, GPRS GPRS (Multislot Class 10, Mobile Station Class B)
Type of mobile network / is supported	GSM
Operating frequency • for GSM transmission • with UMTS transmission • for LTE 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 / Rated value	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

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

Number of possible connections / to the LOGO! logic module	1
Number of users/telephone numbers / definable / maximum	20
Number of user groups / definable / maximum	5
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

Performance data / telecontrol	
Protocol / is supported • TCP/IP	No
Configuration software • required	WEB-Interface
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / Security	
Product function • password protection for Web applications • switch-off of non-required services • log file for unauthorized access	Yes Yes Yes
Product functions / Time	
Product function / pass on time synchronization	Yes
time synchronization • from NTP-server • from GPS-signal • from mobile network provider	Yes Yes 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 • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
Security information	

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¹⁾ Value of the actual supply voltage

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