

Product type designation



LOGO! CMR2040

LOGO! CMR2040 communication Module for connection LOGO! 8 to LTE network; 1 RJ45 port for Ind. Ethernet connection to LOGO! 8; 2xDI; 2xDO; Write/read access to LOGO! tags; sending/ receiving of text messages; E-mail sending; position detection GPS; Time synchronization/ forwarding with real time clock; configuration/diagnostics via web interface; Remote Access via OpenVPN/HTTP, DYNDNS, Observe national approval! Manual available as a download

Transmission rate

Transfer rate

• at the 1st interface	10 ... 100 Mbit/s
• for GPRS transmission	
— with downlink / maximum	85.6 kbit/s
— with uplink / maximum	85.6 kbit/s
• for LTE transmission	
— with downlink / maximum	100 Mbit/s
— with uplink / maximum	50 Mbit/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

<ul style="list-style-type: none"> • for memory cards 	1
Type of electrical connection	
<ul style="list-style-type: none"> • at the 1st interface / acc. to Industrial Ethernet • for external antenna(s) • for power supply 	RJ45 port SMA socket (50 ohms) 3-pole terminal block
Type of antenna	
<ul style="list-style-type: none"> • at port 1 / connectable • at port 2 / connectable 	GPS Antenna Mobile radio antenna (GPRS/GSM, UMTS, LTE)
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
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	
<ul style="list-style-type: none"> • is supported / SMS • is supported / GPRS • Note 	Yes Yes LTE
Type of mobile network / is supported	
<ul style="list-style-type: none"> • GSM • UMTS 	Yes Yes

• LTE	Yes
Operating frequency	
• for GSM transmission / 850 MHz	No
• for GSM transmission / 900 MHz	Yes
• for GSM transmission / 1800 MHz	Yes
• for GSM transmission / 1900 MHz	No
• with UMTS transmission / 850 MHz	Yes
• with UMTS transmission / 900 MHz	Yes
• with UMTS transmission / 2100 MHz	Yes
• for LTE transmission / 800 MHz	Yes
• for LTE transmission / 1800 MHz	Yes
• for LTE transmission / 2600 MHz	Yes

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

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

Product properties, functions, components / general

Product function

- 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 assignments / definable / maximum

32

Number of alias SMS commands / definable / maximum

20

Number of constants / definable / maximum

32

Performance data / IT functions

Number of possible connections

- as server / by means of HTTP / maximum
- as server / by means of HTTPS / maximum
- as e-mail client / maximum

2

2

1

Number of free texts for e-mails / definable by user

20; maximum of 160 characters per user defined text

Performance data / Teleservice

Product function

- Remote firmware update
- remote configuration

Yes

Yes

Configuration software

- required

No, configuration by using the integrated webserver

Product functions / Diagnosis

Product function / Web-based diagnostics

Yes

Product functions / Security

Suitability for operation / Virtual Private Network

Yes

Type of authentication / with Virtual Private Network / PSK

Yes

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 recognition

Product function	
• position detection with GPS	Yes
• pass on position data	Yes

Accessories

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

Security information

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¹⁾ Value of the actual supply voltage

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