

Product type designation



LOGO! CMR2020

LOGO! CMR2020 communication Module for connection LOGO! 8 to GSM/GPRS 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 | 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 |

| | |
|--|--|
| <ul style="list-style-type: none"> • for external antenna(s) • for power supply | 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) |
| 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 |
| Digital input version | not galvanically isolated, not debounced |
| 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 GPRS (Multislot Class 10, Mobile Station Class B) |
| Type of mobile network / is supported <ul style="list-style-type: none"> • GSM • UMTS • LTE | Yes No No |
| Operating frequency | |

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

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 | 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 |
| 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 |

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 e-mail client / maximum | 1 |
| Number of free texts for e-mails / definable by user | 20 |

Performance data / Teleservice

| | |
|--------------------------|-----|
| Product function | |
| • Remote firmware update | Yes |
| • remote configuration | Yes |

Product functions / Diagnosis

| | |
|--|-----|
| Product function / Web-based diagnostics | Yes |
|--|-----|

Product functions / Security

| | |
|---|-----------------------------|
| Suitability for operation / Virtual Private Network | Yes |
| Operating mode Virtual Private Network / note | 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 recognition

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

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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