

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; 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"> at the 1st interface | 10 ... 100 Mbit/s |
| <ul style="list-style-type: none"> for GPRS transmission — with downlink / maximum — with uplink / maximum | 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"> at the 1st interface / acc. to Industrial Ethernet for external antenna(s) for power supply | 1 2 1 |
| number of slots | |
| <ul style="list-style-type: none"> for SIM cards for memory cards | 1 1 |
| type of electrical connection | |
| <ul style="list-style-type: none"> at the 1st interface / acc. to Industrial Ethernet | RJ45 port |
| type of electrical connection | |
| <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 connection 1 / connectable at connection 2 / connectable | GPS Antenna Mobile radio antenna (GPRS/GSM) |
| wire length / of antenna wire / 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 | 0 ... 5 V |

| | |
|---|---|
| <ul style="list-style-type: none"> • for signal <1> / at DC | 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 wireless network / is supported <ul style="list-style-type: none"> • GSM • UMTS • LTE | Yes No No |
| operating frequency / for GSM 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 | 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 <ul style="list-style-type: none"> • from external supply voltage / at DC / at 12 V / maximum • from external supply voltage / at DC / at 24 V / maximum | 0.25 A 0.125 A |
| output current / for GPS antenna / maximum | 15 mA |
| power loss [W] | 3 W |
| ambient conditions | |
| ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport | -20 ... +70 °C -40 ... +85 °C -40 ... +85 °C |
| relative humidity <ul style="list-style-type: none"> • at 25 °C / without condensation / during operation / maximum | 95 % |
| protection class IP | IP20 |
| design, dimensions and weights | |
| 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 <ul style="list-style-type: none"> • 35 mm top hat DIN rail mounting • wall mounting | Yes Yes |
| product features, product functions, product components / general | |
| product function <ul style="list-style-type: none"> • 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 | 10 |
| performance data / IT functions | |
| number of possible connections | |
| <ul style="list-style-type: none"> as server / by means of HTTP / maximum as server / by means of HTTPS / maximum | 2 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"> as email client / maximum | 1 |
| number of free texts / for emails and SMS / maximum | 20 |
| number of characters / per free text for emails or SMS / maximum | 160 |
| performance data / teleservice | |
| product function | |
| <ul style="list-style-type: none"> remote firmware update remote configuration | Yes Yes |
| product functions / management, configuration, engineering | |
| configuration software | |
| <ul style="list-style-type: none"> required | Web interface |
| product functions / diagnostics | |
| product function / web-based diagnostics | Yes |
| product functions / security | |
| 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"> password protection for Web applications password protection for VPN encrypted data transmission switch-off of non-required services log file for unauthorized access | Yes Yes Yes Yes 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 | |
| <ul style="list-style-type: none"> from NTP-server from GPS-signal from mobile network provider PC manual setting | Yes Yes Yes Yes Yes |
| product functions / position detection | |
| product function | |
| <ul style="list-style-type: none"> position detection with GPS pass on position data | Yes Yes |
| standards, specifications, approvals / hazardous environments | |
| certificate of suitability / CCC / for hazardous zone according to GB standard | Yes |

further information / internet-Links

Internet-Link

- to web page: selection aid TIA 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/tia-selection-tool>
<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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