

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 |
| Type of electrical connection | |
| • at the 1st interface / acc. to Industrial Ethernet | RJ45 port |
| • for external antenna(s) | SMA socket (50 ohms) |
| • for power supply | 3-pole terminal block |
| Type of antenna | |
| • at port 1 / connectable | GPS Antenna |
| • at port 2 / connectable | Mobile radio antenna (GPRS/GSM) |
| Slot version | |
| • for SIM card | Standard |

| | |
|--|---------|
| <ul style="list-style-type: none"> 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 |
| Type of electrical connection / for digital input signals | 3 pole terminal block |
| Digital input version | not potential seperated |
| Input voltage / at digital input <ul style="list-style-type: none"> with signal <0> / for DC for signal <1> / for 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> for signal <0> | 12 ... 24 V ¹⁾ 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 Note | 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"> 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 / 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 % |
| Relative negative tolerance / for DC / at 12 V | 10 % |
| Consumed current | |

| | |
|---|---------|
| <ul style="list-style-type: none"> • from external supply voltage / for DC / at 12 V / maximum | 0.25 A |
| <ul style="list-style-type: none"> • from external supply voltage / for DC / at 24 V / maximum | 0.125 A |
| Output current / for GPS antenna / maximum | 15 mA |
| Active power loss | 3 W |

Permitted ambient conditions

| | |
|--|----------------|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -20 ... +70 °C |
| <ul style="list-style-type: none"> • during storage | -40 ... +85 °C |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • 35 mm DIN rail mounting | Yes |
| <ul style="list-style-type: none"> • 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 | 20 |
| 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 |

Product functions / management, configuration

| | |
|--|---------------|
| Configuration software | |
| <ul style="list-style-type: none"> • 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 |
| time synchronization | |
| • from NTP-server | Yes |
| • from GPS-signal | Yes |
| • from mobile network provider | 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 | 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/automation/net/catalog |
| • 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

| | |
|----------------------|---|
| Security information | Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com . (V3.4) |
|----------------------|---|

¹⁾ value of the actual supply voltage

last modified: 21.05.2015