SIEMENS

Data sheet 6GK7142-7EX00-0AX0

Product type designation

LOGO! CMR2040

LOGO! CMR2040 COMMUNICATION MODULE FOR CONNECT. LOGO! 0BA8 TO LTE 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 APPROVEMENTS! MANUAL AS DOWNLOAD AVAILABLE

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

• 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, UMTS, LTE)
Slot version	
• for SIM card	Standard
• of the memory card	microSD
Storage capacity / of the memory card / maximum	8 Gibyte
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	0 ... 5 V
• 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	
• for signal <1> [1)]	12 ... 24 V
• for signal <0>	0 ... 5 V
Output current / at digital output / for signal <1> / maximum	0.3 A

Wireless technology

Type of mobile wireless service	
• is supported	SMS, GPRS
• Note	LTE
Type of mobile network / is supported	GSM, UMTS, LTE
Operating frequency	
• for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 MHz
• with UMTS transmission	900 MHz, 2100 MHz

• for LTE transmission	800 MHz, 1800 MHz, 2600 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	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

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	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/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

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

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