SIEMENS

Data sheet

6GK7142-7EX00-0AX0

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; 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	
• 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
Type of electrical connection	
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)
Wire length / of antenna cable / maximum	15 m
Slot version	
• for SIM card	Standard
• of the memory card	microSD
Storage capacity / of the memory card / maximum	32 Gibyte
Performance class of the memory card / minimum	Class 6
necessary	
Type of file system / Type of file system	FAT32
Signal inputs/outputs	
Number of electrical connections / for digital input	2
signals	
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	
• 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> /	5.5 mA
maximum	
Number of electrical connections / for digital output	2
signals	2 note terminal block
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> /	0.3 A
maximum	
Mirologo tochnology	
Wireless technology Type of mobile wireless service	
• is supported / SMS	Yes
• is supported / GPRS	Yes
Note	LTE
Type of mobile network / is supported	7.2
1 3 po of mobile network / 13 supported	

• GSM	Yes
• UMTS	Yes
• LTE	Yes
Operating frequency / for GSM transmission	900 MHz, 1800 MHz
Operating frequency / with UMTS transmission	850 MHz, 900 MHz, 2100 MHz
Operating frequency / 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	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

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	95 %
operation / maximum	
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 features, product functions, product 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 and SMS / maximum	20
Number of characters / per free text for emails or SMS / maximum	160
Performance data / Teleservice	
Product function	
 Remote firmware update 	Yes
• remote configuration	Yes
Product functions / management, configuration, engineering	
Configuration software • required	Web interface
Product functions / Diagnostics	
Product function / Web-based diagnostics	Yes
Product functions / Security	
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

Security information

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/cax

https://support.industry.siemens.com

Security information

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¹⁾ Value of the actual supply voltage