## **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; 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
<ul> <li>for GPRS transmission</li> </ul>	
— 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
<ul><li>for external antenna(s)</li></ul>	2
<ul><li>for power supply</li></ul>	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><li>for external antenna(s)</li></ul>	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	
Type of electrical connection / for digital output	3 pole terminal block
signals	transister, not notontial congrated
Digital output version Output voltage / at digital output	transistor, not potential seperated
• 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	0.071
Wireless technology	
Type of mobile wireless service	Voc
• is supported / SMS	Yes
• is supported / GPRS	Yes
• Note	LTE
Type of mobile network / is supported	
• GSM	Yes

• UMTS	Yes
• LTE	Yes
Operating frequency	
<ul> <li>for GSM transmission / 850 MHz</li> </ul>	No
<ul> <li>for GSM transmission / 900 MHz</li> </ul>	Yes
• for GSM transmission / 1800 MHz	Yes
<ul> <li>for GSM transmission / 1900 MHz</li> </ul>	No
<ul> <li>with UMTS transmission / 850 MHz</li> </ul>	Yes
<ul> <li>with UMTS transmission / 900 MHz</li> </ul>	Yes
<ul> <li>with UMTS transmission / 2100 MHz</li> </ul>	Yes
<ul> <li>for LTE transmission / 800 MHz</li> </ul>	Yes
<ul> <li>for LTE transmission / 1800 MHz</li> </ul>	Yes
• for LTE transmission / 2600 MHz	Yes

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> <li>from external supply voltage / at DC / at 12 V / maximum</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-20 +70 °C
during storage	-40 +85 °C
<ul> <li>during transport</li> </ul>	-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	

Yes
Yes
Yes
Yes
1
20
10
32
32
32
32
20
10
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.
1
20
Yes
Yes
Yes
Yes
Open VPN server in PSK mode
OpenVPN PSK
AES-128 CBC
Yes

Type of hashing algorithms / with VPN connection	SHA-256
Number of possible connections / with VPN connection	1
Product function	
<ul> <li>password protection for Web applications</li> </ul>	Yes
<ul> <li>password protection for VPN</li> </ul>	Yes
<ul> <li>encrypted data transmission</li> </ul>	Yes
<ul> <li>switch-off of non-required services</li> </ul>	Yes
<ul> <li>log file for unauthorized access</li> </ul>	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
<ul> <li>from mobile network provider</li> </ul>	Yes
• PC	Yes
manual setting	Yes
Product functions / Position recognition	
Product function	
<ul> <li>position detection with GPS</li> </ul>	Yes
pass on position data	Yes
Further Information / Internet Links	
Internet-Link	
<ul> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	http://www.siemens.com/snst
<ul> <li>to website: Industrial communication</li> </ul>	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. Thirdparty 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)

last modified:

12/01/2018

<sup>1)</sup> Value of the actual supply voltage