SIEMENS

Product type designation

Data sheet

6GK7142-7EX00-0AX0



LOGO! CMR2040

LOGO! CMR2040 COMMUNICATION MODULE FOR CONNECT. LOGO! 8 TO LTE NET; 1 RJ45 PORT FOR IND. ETHERNET-CONNECTION TO LOGO! 8; 2XDI;2XDO; READ/WRITE-ACCESS TO LOGO!-VARIABLES; SMS SEND/RECEIVE; Email SEND; POSITION RECOGN. GPS; TIME SYN./ FORWARDING WITH REAL TIME CLOCK; CONFIG./DIAG.PER WEB-INTERFACE; Remote Access VIA OpenVPN/HTTP, DYNDNS, 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
late the end	
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
	Mobile radio antenna (GPRS/GSM, UMTS, LTE)
at port 2 / connectable	15 m
Wire length / of antenna cable / maximum Slot version	15 11
for SIM card	Standard
of the memory card	microSD
Storage capacity / of the memory card / maximum	32 Gibyte Class 6
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
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	Yes
• is supported / GPRS	Yes
Note	LTE
Type of mobile network / is supported	
• GSM	Yes
• UMTS	Yes

• LTE	Yes
Operating frequency	
 for GSM transmission / 850 MHz 	No
 for GSM transmission / 900 MHz 	Yes
 for GSM transmission / 1800 MHz 	Yes
 for GSM transmission / 1900 MHz 	No
 with UMTS transmission / 850 MHz 	Yes
 with UMTS transmission / 900 MHz 	Yes
 with UMTS transmission / 2100 MHz 	Yes
 for LTE transmission / 800 MHz 	Yes
 for LTE transmission / 1800 MHz 	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	
 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	
Design, dimensions and weight Module format	Compact module, for rail mounting
	Compact module, for rail mounting 71.5 mm
Module format	
Module format Width	71.5 mm
Module format Width Height	71.5 mm 90 mm

Yes

35 mm DIN rail mounting

• wall mounting	Yes
Product properties, functions, components / genera	I
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	32
Performance data / IT functions	
Number of possible connections	
 as server / by means of HTTP / maximum 	2
 as server / by means of HTTPS / maximum 	2
• as e-mail client / maximum	1
Number of free texts for e-mails / definable by user	20; maximum of 160 characters per user defined text
Performance data / Teleservice	
Product function	
 Remote firmware update 	Yes
 remote configuration 	Yes
Configuration software	
• required	No, configuration by using the integrated webserver
Product functions / Diagnosis	
Product function / Web-based diagnostics	Yes
Product functions / Security	
Suitability for operation / Virtual Private Network	Yes
Type of authentication / with Virtual Private Network / PSK	Yes
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 /	7.5 s
maximum	
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

• position detection with GPS	165
 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
 to website: CAx Download Manager 	http://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com

Security information

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¹) Value of the actual supply voltage

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