SIEMENS

Product type designation

Data sheet

6GK7142-7EX00-0AX0



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

10 100 Mbit/s
85.6 kbit/s
85.6 kbit/s
100 Mbit/s
50 Mbit/s
1
1
2
1
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)
	3-pole terminal block
• for power supply	
Type of antenna	CDC Asterno
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 necessary	Class 6
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> / maximum	5.5 mA
Number of electrical connections / for digital output signals	2
Type of electrical connection / for digital output	3 pole terminal block
signals	
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	
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	
Module format	Compact module S7-1200 single width
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 properties, functions, components / genera	
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	
Performance data / IT functions Number of possible connections	
	2
Number of possible connections	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.
Number of possible connections as server / by means of HTTP / maximum 	2; http and https can be combined (max. number of 2 connections cannot be exceeded). Max. one connection via https is possible
Number of possible connections as server / by means of HTTP / maximum 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.
 Number of possible connections as server / by means of HTTP / maximum as server / by means of HTTPS / maximum as e-mail client / maximum Number of free texts for e-mails / definable by user 	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.
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Number of possible connections • as server / by means of HTTP / maximum • as server / by means of HTTPS / maximum • as e-mail client / maximum Number of free texts for e-mails / definable by user Performance data / Teleservice	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.
Number of possible connections • as server / by means of HTTP / maximum • as server / by means of HTTPS / maximum • as e-mail client / maximum Number of free texts for e-mails / definable by user Performance data / Teleservice Product function • Remote firmware update	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; maximum of 160 characters per user defined text
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Number of possible connections • as server / by means of HTTP / maximum • as server / by means of HTTPS / maximum • as e-mail client / maximum Number of free texts for e-mails / definable by user Performance data / Teleservice Product function • Remote firmware update • remote configuration	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; maximum of 160 characters per user defined text Yes
Number of possible connections • as server / by means of HTTP / maximum • as server / by means of HTTPS / maximum • as e-mail client / maximum Number of free texts for e-mails / definable by user Performance data / Teleservice Product function • Remote firmware update • remote configuration Configuration software	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; maximum of 160 characters per user defined text Yes Yes
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Number of possible connections • as server / by means of HTTP / maximum • as server / by means of HTTPS / maximum • as e-mail client / maximum Number of free texts for e-mails / definable by user Performance data / Teleservice Product function • Remote firmware update • required Product functions / Diagnosis Product function / Web-based diagnostics	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; maximum of 160 characters per user defined text Yes Yes No, configuration by using the integrated webserver
Number of possible connections • as server / by means of HTTP / maximum • as server / by means of HTTPS / maximum • as e-mail client / maximum Number of free texts for e-mails / definable by user Performance data / Teleservice Product function • Remote firmware update • required Product functions / Diagnosis Product function / Web-based diagnostics Product functions / Security	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; maximum of 160 characters per user defined text Yes Yes No, configuration by using the integrated webserver Yes

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
Accessories	
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

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¹) Value of the actual supply voltage

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