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Data sheet

6GK7142-7EX00-0AX0



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! variables; SMS dispatch/ receiving of text messages; email dispatch; 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 / according to Industrial Ethernet	1	
number of electrical connections		
• at the 1st interface / according 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 / according 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 connection 1 / connectable 	GPS Antenna	
 at connection 2 / connectable 	Mobile radio antenna (GPRS/GSM, UMTS, LTE)	
wire length / of antenna wire / 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 signals	2	
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 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 wireless network / is 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
	000 WITZ, 1000 WITZ, 2000 WITZ
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 /	0.25 A
maximum	
 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
	3 **
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 / 	95 %
maximum	IP20
protection class IP	IP20
design, dimensions and weights	
module format	Compact module, for rail mounting
width	71.5 mm
height	90 mm
depth	58.2 mm
net weight	0.16 kg
fastening method	
 35 mm top hat 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	1
module	
number of users/telephone numbers/email addresses /	20
definable / maximum	
number of user groups / definable / maximum	10
number of signals / for monitoring or device control /	32
definable / maximum	

number of events / for monitoring / definable / maximum number of actions / definable / maximum number of assignments / definable / maximum	32 32 32
number of alias SMS commands / definable / maximum	20
number of constants / definable / maximum performance data / IT functions	10
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 email client / maximum	1
number of free texts / for emails 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	ng
configuration software	Web interfere
• required	Web interface
product functions / diagnostics	Vac
product function / web-based diagnostics	Yes
product functions / security operating mode / Virtual Private Network (VPN)	Voc. Open VDN Conver in DCV mode
product function / with VPN connection	Yes; Open VPN Server in PSK mode 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 detection	
product function	
position detection with GPS	Yes
pass on position data	Yes
standards, specifications, approvals / hazardous environm	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall to website: Information and Download Contain	https://mall.industry.siemens.com
to website: Information and Download Center to website: Image database	http://www.siemens.com/industry/infocenter
to website: Image databaseto website: CAx-Download-Manager	http://automation.siemens.com/bilddb http://www.siemens.com/cax
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• 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)

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¹) Value of the actual supply voltage

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