## **SIEMENS**

## **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
<ul> <li>for GPRS transmission</li> </ul>	
— with downlink / maximum	85.6 kbit/s
— with uplink / maximum	85.6 kbit/s
<ul> <li>for LTE transmission</li> </ul>	
— 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	
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	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
<ul> <li>for memory cards</li> </ul>	1
type of electrical connection	
at the 1st interface / according to Industrial Ethernet	RJ45 port
type of electrical connection	
<ul><li>for external antenna(s)</li></ul>	SMA socket (50 ohms)
• for power supply	3-pole terminal block
type of antenna	
<ul> <li>at connection 1 / connectable</li> </ul>	GPS Antenna
at connection 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 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
<ul><li>for signal &lt;1&gt; / at DC</li></ul>	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	Von
	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	
·	-20 +70 °C
during operation	
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	UDAA
ριστουτιστι σιαδό τι	ID://
design dimensions and weights	IP20
design, dimensions and weights	
module format	Compact module, for rail mounting
module format width	Compact module, for rail mounting 71.5 mm
module format width height	Compact module, for rail mounting 71.5 mm 90 mm
module format width height depth	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm
module format width height depth net weight	Compact module, for rail mounting 71.5 mm 90 mm
module format width height depth	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg
module format width height depth net weight	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting product features, product functions, product components / gene	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting product features, product functions, product components / general product function	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting product features, product functions, product components / general product function • DynDNS client	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting product features, product functions, product components / general product function • DynDNS client • no-ip.com client performance data	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes Yes Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting product features, product functions, product components / gene product function • DynDNS client • no-ip.com client performance data number of possible connections / to the LOGO! logic module	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes Yes Yes Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting  product features, product functions, product components / general product function • DynDNS client • no-ip.com client  performance data	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes Yes Yes Yes Yes
module format  width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting  product features, product functions, product components / general product function • DynDNS client • no-ip.com client  performance data number of possible connections / to the LOGO! logic module number of users/telephone numbers/email addresses /	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes Yes Yes Yes Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • wall mounting  product features, product functions, product components / gene product function • DynDNS client • no-ip.com client  performance data number of possible connections / to the LOGO! logic module number of users/telephone numbers/email addresses / definable / maximum	Compact module, for rail mounting 71.5 mm 90 mm 58.2 mm 0.16 kg  Yes Yes Yes Yes 1 20

number of control / definable / maximum 32 number of assignments / definable / maximum 32 number of assignments / definable / maximum 20 number of alsa / definable / maximum 20 number of alsa / MS Commands / definable / maximum 10 performance data / If functions number of possible connections ** number of possible connections ** ** ** ** ** ** ** ** ** ** ** ** **		
number of assignments / definable / maximum 20 number of callais SMS commands / definable / maximum 10 porformance data / IT functions unaber of consists / definable / maximum 10 number of consists / definable / maximum 10 as server / by means of HTTP / maximum 2, this as server / by moduse function / web-based diagnostics / by produce function / web-based diagnost	number of events / for monitoring / definable / maximum	32
number of alias SMS commands / definable / maximum 10  proformance data / IT functions number of possible connections = as server / by means of HTTP / maximum 2. 2. ttp and https can be contioned (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 1  number of the totas / for emails and SMS / maximum 20 number of the totas / for emails and SMS / maximum 20 number of the totas / for emails and SMS / maximum 20 performance data / tolescentice  product function * remote firmware update	number of actions / definable / maximum	
number of constants / definable / maximum performance data / IT functions unable of possible connections  • as server / by means of HTTP / maximum  • as server / by means of HTTPs / maximum  • as server / by means of HTTPs / maximum  unable of possible connections of HTTPs / maximum  2 thing 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  number of free texts / for emails and SMS / maximum  number of rharacters / per free text for emails or SMS /  maximum  performance data / toleservice  product function / web based diagnostics	number of assignments / definable / maximum	32
performance data / IT functions number of possible connections	number of alias SMS commands / definable / maximum	20
number of possible connections  as server / by means of HTTP / maximum  as server / by means of HTTPs / 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.  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  20 performance data / talescrutce  product function / maximum and pate	number of constants / definable / maximum	10
as server / by means of HTTP / maximum as server / by means of HTTP S / maximum  as server / by means of HTTP S / maximum  number of fear texts / for emails and SMS / maximum  number of fear texts / for emails and SMS / maximum  number of fear texts / for emails and SMS / maximum  number of texts for emails and SMS / maximum  performance data / teleservice  product function  remote firmware update required  repoduct functions / management, configuration, engineering  configuration software required  required  required  required  repoduct functions / web-based diagnostics  product function / web-based diagnostics  product function / with VPN connection  ype of encryption algorithms / with VPN connection  ype of encryption algorithms / with VPN connection  ype of encryption algorithms / with VPN connection  product function  password protection for VPN  reassword protection for VPN  ress  repoduct functions / financial protection for VPN  ress  reposition detection for vPn  remails entire stock / per day / maximum  time synchronization  remote protection for VPN  ress  remote form or Special protection for VPN  ress  remote of position detection  reposition detection  reposition detection with GPS  reassword protection for the prote	performance data / IT functions	
as server / by means of HTTPS / maximum  a semall client / maximum  number of free texts / for emails and SMS / maximum  number of free texts / for emails and SMS / maximum  number of characters / per free text for emails or SMS / maximum  performance data / foliservice  product function  remote configuration of the remote configuration, engineering configuration software  required  product function / web-based diagnostics  product function / web very web	number of possible connections	
e as email client / maximum 1 number of free texts / for remails and SMS / maximum 20 number of characters / per free text for emails or SMS / maximum 160 number of characters / per free text for emails or SMS / maximum 160 performance data / teleservice product function	<ul><li>as server / by means of HTTP / maximum</li></ul>	2
as email client / maximum  number of relexes / for emails and SMS / maximum  20 number of reachers / per free text for emails or SMS / maximum  performance data / teleservice  product function  • remote firmware update  • remote configuration  • remote configuration  • remote configuration  • required  product functions / management, configuration, engineering  configuration software  • required  product functions / depansates  product function / web-based diagnostics  (yes product function / with VPN connection  (yes of encryption algorithms / with VPN connection  (yes of authentication / with VPN connection  product function  product function  • password protection for Veb applications  • password protection for Veb applications  • password protection for Veb applications  • password protection for VPN  • encrypted data transmission  • pessible connections / with VPN connection  • product function / pass on time synchronization  • from NTP-server  • remote PS-signal  • from NTP-server  • remote PS-signal  • from mobile network provider  • pessible network provider  • pession defection with GPS  • pass on position detection  product function  • position defection with GPS  • pass on position data  * as marking  * Yes  • Basin JLC 4 Ge  Ex.n. All CT 4 Ge	• as server / by means of HTTPS / maximum	exceeded). Max. one connection via https is possible on the mobile wireless
number of free texts / for emails and SMS / maximum performance data / felsevrice product function	as email client / maximum	
number of characters / per free text for emails or SMS / maximum  performance data / teleservice  product function		
maximum performance data / teleservice  product function • remote firmware update • remote configuration • remote configuration  product functions / management, configuration, engineering configuration software • required • required  product functions / diagnostics  product function / web-based diagnostics  product function / with VPN connection  QpenVPN PSK  yes  product function / with VPN connection  AES-128 CBC  type of authentication / with VrN connection  SHA-256  unwher of possible connections / with VPN connection  product function  password protection for Web applications  password protection for VPN  encrypted data transmission  password protection for VPN  encrypted data transmission  yes  elogifie for unauthorized access  yes  product function / pass on time synchronization  accuracy of the hardware real time clock / per day / maximum  itime synchronization  e from NTP-server  from GPS-signal  Yes  from GPS-signal  Yes  end GPS-signal  Yes  product function  position detection  product function  product function  product function  position detection  product function  position detection with GPS  pass on position detection  Yes  pass on position date  Yes  product function / yes  pass on position date  Ye		
product function  • remote firmware update • remote configuration  product functions / management, configuration, engineering configuration software • required • required • required • required  product function / web-based diagnostics  product function / with VPN connection  operating mode / Virtual Private Network (VPN)  product function / with VPN connection  (ype of encryption algorithms / with VPN connection  (ype of encryption algorithms / with VPN connection  (ype of almelinetation / with VPN connection  (ype of shashing algorithms / with VPN connection  SHA-256  number of possible connections / with VPN connection  • password protection for Web applications  • password protection for VPN  • encrypted data framsinssion  • log file for unauthorized access  product functions / time  product function / pass on time synchronization  • from NTP-server  • from GPS-signal  • from NTP-server  • from SPS-signal  • from NTP-server  • from SPS-signal  • from mobile network provider  • PC  • manual setting  product function / position detection  product function / position data  • as marking  Ex n All IC T4 Gc  Ex n All IC T4 Gc	·	
remote firmware update	performance data / teleservice	
• remote configuration  product functions / management, configuration, engineering  configuration software  • (equired Web interface)  product functions / diagnostics  product function / web-based diagnostics  product function / web-based diagnostics  product function / with -based diagnostics  product function / with PVPN connection  QpenVPN PSK  type of encyption algorithms / with VPN connection  type of encyption algorithms / with VPN connection  4ES-128 BCC  type of authentication / with VPN connection  1	product function	
configuration software  • required  • required  • required  • required  product functions / diagnostics  product functions / diagnostics  product functions / security  operating mode / Virtual Private Network (VPN)  product function / with VPN connection  (OpenVPN PSK  Vye of encryption algorithms / with VPN connection  Vye of encryption algorithms / with VPN connection  Vye of authentication / with VVPN connection  SHA-256  number of possible connections / with VPN connection  • password protection for Web applications  • password protection for Web applications  • password protection for VPN  • encrypted data transmission  • solid for on-required services  • log file for unauthorized access  yes  product function / pass on time synchronization  • from NTP-server  • from GPS-signal  • from mobile network provider  • PC  • manual setting  product function  • position detection with GPS  • pass on position data  • as marking  Ves  • GB 383836.1, GB3836.8  Ex nA IIC T4 Gc	remote firmware update	Yes
configuration software	remote configuration	Yes
configuration software		
required Web interface  product functions / diagnostics  product function / web-based diagnostics  product functions / security  operating mode / Virtual Private Network (VPN) Yes; Open VPN Server in PSK mode  product function / with VPN connection OpenVPN PSK  type of encryption algorithms / with VPN connection AES-128 CBC  type of encryption algorithms / with VPN connection SHA-256  number of possible connections / with VPN connection 1  product function  password protection for Web applications Yes  encrypted data transmission Yes  encrypted data transmission Yes  log file for unauthorized access Yes  product function / pass on time synchronization Yes  accuracy / of the hardware real time clock / per day / maximum 7.5 s  time synchronization  from CPS-signal Yes  from CPS-signal Yes  from cPS-signal Yes  product functions / position detection  product functions / position detection  product function / position detection  product functions / position detection with GPS  pass on position data  See (BB standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to  Base in AB / See		
product function / diagnostics product function / web-based diagnostics product function / security operating mode / Virtual Private Network (VPN) 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 type of hashing algorithms / with VPN connection Inumber of possible connections of VPN Interview of protection for VPN Interview of authorized or VPS Interview of authorized	-	Web interface
product function / web-based diagnostics  product functions / security  operating mode / Virtual Private Network (VPN)  type of encryption algorithms / with VPN connection  type of encryption algorithms / with VPN connection  AES-128 CBC  type of authentication / with VPN connection  type of authentication / with VPN connection  AES-128 CBC  type of hashing algorithms / with VPN connection  SHA-256  number of possible connections / with VPN connection  • password protection for Web applications  • password protection for WPN  • encrypted data transmission  • switch-off of non-required services  • log file for unauthorized access  product function / pass on time synchronization  accuracy / of the hardware real time clock / per day / maximum  time synchronization  • from NTP-server  • from GPS-signal  • from mobile network provider  • PC  • manual setting  product function / position detection  product function  product function / position detection  product function / position detection  product function / position data  * sea on position data  • as marking  Ex nA IIC T4 Gc  Ex na IIC T4 Gc	<u> </u>	
product functions / security operating mode / Virtual Private Network (VPN) product function / with VPN connection type of encryption algorithms / with VPN connection AES-128 CBC type of authentication / with Virtual Private Network / PSK type of hashing algorithms / with VPN connection SHA-256 number of possible connections / with VPN connection product function product function password protection for Web applications password protection for VPN encrypted data transmission switch-off of non-required services log file for unauthorized access yes product function / pass on time synchronization from NTP-server from GPS-signal from mobile network provider FPC manual setting product functions / position detection product functions / position data  **Example of the hardware read the context of the position detection product functions / position detection product functions / position detection  product functions / positions / positions / positions / positions /		Yes
operating mode / Virtual Private Network (VPN) product function / with VPN connection		
product function / with VPN connection  type of encryption algorithms / with VPN connection  type of authentication / with VIrtual Private Network / PSK  type of hashing algorithms / with VPN connection  shade of possible connections / with VPN connection  number of possible connections / with VPN connection  product function  product function  password protection for Web applications  password protection for VPN  password protection for VPN  encrypted data transmission  switch-off of non-required services  log file for unauthorized access  product function / pass on time synchronization  accuracy / of the hardware real time clock / per day / maximum  from NTP-server  from GPS-signal  from mobile network provider  PC  manual setting  product functions  product functions  yes  product functions  yes  from GPS-signal  from mobile network provider  yes  product functions  yes  product functions  yes  from GPS-signal  yes  product functions  yes  product functions  position detection with GPS  pass on position data  Yes  SHABSB36.8  Yes; GB3836.1, GB3836.8  Ex nA IIC T4 Gc		Vas: Onen VDN Server in DSV mode
type of encryption algorithms / with VPN connection type of authentication / with Virtual Private Network / PSK type of hashing algorithms / with VPN connection SHA-256 number of possible connections / with VPN connection 1 product function • password protection for Web applications • password protection for VPN • encrypted data transmission • switch-off of non-required services • log file for unauthorized access  responduct function / pass on time synchronization  accuracy / of the hardware real time clock / per day / maximum  from NTP-server • from GPS-signal • from mobile network provider • PC • manual setting  product function / position detection  product functions / position detection  product functions / position detection  product functions / position data  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard • as marking  Ex nA IIC T4 Gc  Yes  Ex nA IIC T4 Gc		·
type of authentication / with Virtual Private Network / PSK type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  password protection for Web applications  password protection for VPN  password protection for VPN  encrypted data transmission  yes  log file for unauthorized access  product function / pass on time synchronization  accuracy / of the hardware real time clock / per day / maximum  from NTP-server  from GPS-signal  from mobile network provider  PC  manual setting  product functions  position detection  product functions  position detection with GPS  pass on position data  yes  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  e as marking  Ex nA IIC T4 Gc	·	·
type of hashing algorithms / with VPN connection  number of possible connections / with VPN connection  product function  • password protection for Web applications  • password protection for VPN  • encrypted data transmission  • switch-off of non-required services  • log file for unauthorized access  product functions / time  product functions / time  product functions / time  product function / pass on time synchronization  • from NTP-server  • from GPS-signal  • from mobile network provider  • PC  • manual setting  product functions / position detection  product functions / position detection  product functions / position detection  product functions / position data  **esserving algorithms / with VPN connection  1	· · · · · · · · · · · · · · · · · · ·	
number of possible connections / with VPN connection  product function  • password protection for Web applications  • password protection for VPN  • encrypted data transmission  • switch-off of non-required services  • log file for unauthorized access  Pes  product functions / time  product function / pass on time synchronization  accuracy / of the hardware real time clock / per day / maximum  **T.5 s**  time synchronization  • from NTP-server  • from MSP-signal  • from mobile network provider  • PC  • manual setting  product functions / position detection  product functions / position detection  product functions / position data  • position detection with GPS  • pass on position data  **Yes  **Ses GB3836.1, GB3836.8  Ex nA IIC T4 Gc  **Ess GB3836.1, GB3836.8	·	
product function  • password protection for Web applications • password protection for VPN  • password protection for VPN  • encrypted data transmission • switch-off of non-required services • log file for unauthorized access  product functions / time  product function / pass on time synchronization accuracy / of the hardware real time clock / per day / maximum  • from NTP-server • from GPS-signal • from mobile network provider • PC • manual setting  product functions / position detection  product functions / position detection  product function • position detection with GPS • pass on position data  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard • as marking  Ex nA IIC T4 Gc		
password protection for Web applications password protection for VPN password protection for VPN password protection for VPN password protection for VPN pes encrypted data transmission password for non-required services product functions / time product functions / time product function / pass on time synchronization product function product function / password product function product function / position detection product function / position detection product function product function position detection with GPS pass on position data  standards, specifications, approvals / hazardous environments certificate of suitability / CCC / for hazardous zone according to GB standard as marking  Ex nA IIC T4 Gc	·	1
password protection for VPN encrypted data transmission switch-off of non-required services switch-off of non-required services log file for unauthorized access  res product function / pass on time synchronization accuracy / of the hardware real time clock / per day / maximum  from NTP-server from GPS-signal from mobile network provider PC manual setting  roduct function / position detection  product function / position detection  product function / position detection  product function / position data  Yes standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard as marking  Ex nA IIC T4 Gc  Yes  Yes  Yes  Yes  Pass	•	
encrypted data transmission     switch-off of non-required services     log file for unauthorized access     yes      product functions / time  product function / pass on time synchronization     accuracy / of the hardware real time clock / per day / maximum     7.5 s  time synchronization     from NTP-server     from GPS-signal     from mobile network provider     PC     manual setting  product functions / position detection  product functions / position detection  product functions / position data  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard     as marking  Ex nA IIC T4 Gc  Yes  Yes  Yes  Yes  Yes  GB3836.1, GB3836.8	<ul> <li>password protection for Web applications</li> </ul>	
switch-off of non-required services     log file for unauthorized access      product functions / time  product function / pass on time synchronization  accuracy / of the hardware real time clock / per day / maximum  from NTP-server     from GPS-signal     from mobile network provider     PC     manual setting  product functions / position detection  product functions / position detection  product function     position detection with GPS     pass on position data  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard     as marking  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	<ul> <li>password protection for VPN</li> </ul>	
• log file for unauthorized access      product functions / time  product function / pass on time synchronization     accuracy / of the hardware real time clock / per day / maximum     7.5 s  time synchronization     • from NTP-server     • from GPS-signal     • from mobile network provider     • PC     • manual setting  product functions / position detection  product function     • position detection with GPS     • pass on position data  standards, specifications, approvals / hazardous zone according to GB standard     • as marking  Pyes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	<ul> <li>encrypted data transmission</li> </ul>	Yes
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 functions / position detection  product function • position data  * pass on position data  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard • as marking  * As MIC T4 GC	<ul> <li>switch-off of non-required services</li> </ul>	
product function / pass on time synchronization accuracy / of the hardware real time clock / per day / maximum 7.5 s  time synchronization  • from NTP-server • from GPS-signal • from mobile network provider • PC • manual setting  product functions / position detection  product function • position detection with GPS • pass on position data  yes  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard • as marking  Ex nA IIC T4 Gc		Yes
accuracy / of the hardware real time clock / per day / maximum  time synchronization  • from NTP-server  • from GPS-signal  • from mobile network provider  • PC  • manual setting  product functions / position detection  product function  • position detection with GPS  • pass on position data  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  • as marking  7.5 s  7.7 s  7.5 s  7.5 s  7.5 s  7.5 s  7.6 s  7.7 s  7.7 s  7.7 s  7.8 s	product functions / time	
time synchronization  • from NTP-server  • from GPS-signal  • from mobile network provider  • PC  • manual setting  product functions / position detection  product function  • position detection with GPS  • pass on position data  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  • as marking  Ex nA IIC T4 Gc	product function / pass on time synchronization	Yes
<ul> <li>from NTP-server</li> <li>from GPS-signal</li> <li>from mobile network provider</li> <li>PC</li> <li>manual setting</li> <li>product functions / position detection</li> <li>product function</li> <li>position detection with GPS</li> <li>pass on position data</li> <li>standards, specifications, approvals / hazardous environments</li> <li>certificate of suitability / CCC / for hazardous zone according to GB standard</li> <li>as marking</li> <li>Yes</li> <li>Yes</li> <li>GB3836.1, GB3836.8</li> <li>Ex nA IIC T4 Gc</li> </ul>	accuracy / of the hardware real time clock / per day / maximum	7.5 s
<ul> <li>from GPS-signal</li> <li>from mobile network provider</li> <li>PC</li> <li>manual setting</li> <li>yes</li> </ul> product functions / position detection  product function <ul> <li>position detection with GPS</li> <li>pass on position data</li> <li>yes</li> </ul> <li>standards, specifications, approvals / hazardous environments</li> <li>certificate of suitability / CCC / for hazardous zone according to GB standard <ul> <li>as marking</li> <li>Ex nA IIC T4 Gc</li> </ul> </li>	time synchronization	
from mobile network provider     PC     Yes     manual setting     Yes  product functions / position detection  product function     position detection with GPS     pass on position data  **example of suitability / CCC / for hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard     as marking  **example of Standard Standard     Ex nA IIC T4 Gc  **example of Standard Standard     Ex nA IIC T4 Gc	• from NTP-server	Yes
PC  manual setting  yes  product functions / position detection  product function  product function  prosition detection with GPS  pass on position data  yes  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  as marking  Ex nA IIC T4 Gc	• from GPS-signal	Yes
<ul> <li>manual setting</li> <li>product functions / position detection</li> <li>product function</li> <li>position detection with GPS</li> <li>pass on position data</li> <li>standards, specifications, approvals / hazardous environments</li> <li>certificate of suitability / CCC / for hazardous zone according to GB standard</li> <li>as marking</li> <li>Ex nA IIC T4 Gc</li> </ul>	• from mobile network provider	Yes
product functions / position detection  product function  • position detection with GPS  • pass on position data  Yes  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  • as marking  Ex nA IIC T4 Gc	• PC	Yes
product function  • position detection with GPS  • pass on position data  Yes  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  • as marking  Ex nA IIC T4 Gc	manual setting	Yes
product function  • position detection with GPS  • pass on position data  Yes  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  • as marking  Ex nA IIC T4 Gc		
position detection with GPS     pass on position data     Yes  standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard     as marking  Ex nA IIC T4 Gc		
<ul> <li>pass on position data</li> <li>standards, specifications, approvals / hazardous environments</li> <li>certificate of suitability / CCC / for hazardous zone according to         GB standard</li> <li>as marking</li> <li>Ex nA IIC T4 Gc</li> </ul>	•	Yes
standards, specifications, approvals / hazardous environments  certificate of suitability / CCC / for hazardous zone according to GB standard  • as marking  Ex nA IIC T4 Gc	·	
certificate of suitability / CCC / for hazardous zone according to GB standard  • as marking  Yes; GB3836.1, GB3836.8  Ex nA IIC T4 Gc		
GB standard  ● as marking  Ex nA IIC T4 Gc		Yes: GB3836.1 GB3836.8
	GB standard	
Turtner information / internet links		EX HA IIC 14 GC
internet link		
• to web page: selection aid TIA Selection Tool <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>		
• to website: Industrial communication <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>		
• to website: Industry Mall <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	•	
• to website: Information and Download Center <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>	<ul><li>to website: Information and Download Center</li></ul>	
• to website: Image database <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>	• to website: Image database	http://automation.siemens.com/bilddb

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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last modified:

11/9/2023

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