Product data sheet

TDC-E210GC

Telematic Data Collector

SICK
Sensor Intelligence.

Ordering information

Description	Network coverage	Items supplied	Type	Part no.
The gateway networks sensors, machines and IIoT platforms for collecting and preprocessing local sensor and process data.	Europe Middle East Africa APAC without Japan	TDC-E210GC with mobile communication (without data flow) including connecting cables and operating instructions	TDC-E210GC	6070344

Included in delivery: LTE antenna (1), WLAN antenna (1), GPS antenna (1), Spare power connection cable (1)

Other models and accessories ➜ www.sick.com/Telematic_Data_Collector

Detailed technical data

Features

Product category	Gateway and cloud solutions
Installed application	Programmable base device

Mechanics/electronics

Supply voltage	24 V DC (9 V DC ... 36 V DC)
Power consumption	2.4 W
Housing dimensions (W x D x H)	162 mm x 32 mm x 101 mm
Weight	230 g
Housing material	Polyamide PA6
Housing color	Light blue (RAL 5012)
Enclosure rating	IP20 (according to DIN EN 60529)

Performance

Sensor	Acceleration sensor, Magnetometer, Thermometers
Internal computer	1 GB, DD3, dual-core Cortex-A7 with Cortex-M4 co-processor
Internal memory	16 GB
Operating system	Linux4Microservices, based on Linux Yocto Project 3.1.4 (Dunfell)
Ecosystem	Docker
User interface	TDC-E Device Manager, User Manager, Interface Manager
Data protocol	MQTT REST API WebSocket
Data format	JSON
Connectivity	Mobile communication (4G), WLAN, WPAN, LAN
Mobile network	Global coverage, LTE TDD: 1900/2300/2500/2600, LTE-FDD: 700/800/850/900/1700/1800/1900/2100/2600, UMTS: 850/900/1700/1900/2100
Region of use	Europe, Middle East, Africa, APAC without Japan

Interfaces

GPS	✓, L1 C/A satellite-based extension system: WAAS, EGNOS, MSAS, GAGAN
Protocol	GPS, GLONASS, BeiDo, Galileo
Electrical connection	MCX
Modem	✓, 4G
Data transmission rate	(≤ 150 Mbit/s), Full 4G performance cannot be guaranteed on operating temperature over 60 °C.
Ethernet	✓ (2)
Data transmission rate	(10 Mbit/s ... 1,000 Mbit/s)
Electrical connection	RJ45
WLAN	✓
Data transmission rate	(≤ 65 Mbit/s), single band 2.4 GHz
Protocol	IEEE 802.11 b/g/n
WPAN	✓, IEEE 802.15.1, IEEE 802.15.4, IEEE 802.15.3
Serial	✓, RS-232, RS-422, RS-485, SSI, 1Wire
Electrical connection	Micro-Fit (20-pin)
CAN bus	✓ (2)
Data transmission rate	1 Mbit/s, adjustable
Protocol	J1939, CANOpen
Electrical connection	Micro-Fit (20-pin)
USB	✓, USB 2.0
Electrical connection	USB 2.0 A-Male connector
Inputs/outputs	
I/O	6 analog inputs (configurable, current and voltage), 6 digital inputs/outputs (configurable), 2 additional digital inputs, 2 additional digital outputs [1]
Optical indicators	3, LED, status displays
Configuration interface	Web-Interface REST API

[1] Analog measurement of voltage (0 - 36 V) with an accuracy of ±(0.2%+30 mV), current (0 - 32 mA), with an accuracy of ±(1%+0.1 mA), input resistance 27.5 kΩ typical for voltage mode, 100 Ω typical for current mode.

Ambient data

Ambient temperature, operation	–20 °C ... +70 °C
Ambient temperature, storage	–40 °C ... +85 °C
Shock load	IEC 60068-2-27
Electromagnetic compatibility (EMC)	EN 303446-1 EN 55032 EN 55024 EN 61000-3-2 EN 61000-3-3
Product safety	EN 62311:2008
Radio approval	RED IMDA KC

General notes

Description	The gateway networks sensors, machines and IIoT platforms for collecting and preprocessing local sensor and process data.

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Classifications

ECLASS 6.0	19179090
ECLASS 6.2	19179090
ECLASS 7.0	19179090
ECLASS 8.0	19179090
ECLASS 8.1	19179090
ECLASS 9.0	19179090
ECLASS 10.0	19179090
ECLASS 11.0	19179090
ECLASS 12.0	19179090
UNSPSC 16.0901	43222605

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com