

SenseCeiver I/O

Low Power Sensor Gateway for I/O data communication



Round Solutions Design Team

Designed and manufactured in Germany

Product Description

The SenseCeiver I/O Gateway has been developed specifically for **connecting things to the cloud**. Data can be received via analog or digital inputs and be sent by SMS or GPRS to a device of your choice or to a cloud. Use the outputs to send commands to the connected things.

SenseCeiver achieves an excellent **energy efficiency** by using energy-saving components. It has, thanks to its optimized hardware and software, a particularly low power consumption and can also be run by battery.

The SenseCeiver I/O Gateway is **preconfigured** from Round Solutions, to ensure a direct and pleasant start to the I/O based applications.

The Gateway uses a cellular modem available with **4G, 3G or 2G** standard. After sending data it switches automatically to **sleep mode** which is controlled by a Microchip PIC. The data are sent at preset intervals via HTTP or SMS. The SenseCeiver I/O Gateway can be fully configured and diagnosed via SMS.

Additional Services

Round Solutions also offers optional **software development kits** for SenseCeiver I/O Gateway with Python* that allows software developers to create custom firmware for the device quickly, resulting in the **acceleration of launch time**.

The collected data can easily be sent to an **IoT cloud** which allows a rapid establishment of the metering platform.

The GUI for the IoT cloud is available from any web browser or mobile via a smartphone or tablet.

With the **IoT SIM Card** from Telit, a stable data transfer between the SenseCeiver I/O Gateway and cloud can be achieved. Through global automatic roaming, it is always active in the best network.

The SenseCeiver I/O Gateway may be used in all IoT applications such as Monitoring and measuring.

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Interfaces

- GPIO interface
 - 2x Analog Inputs
 - 2x Digital Inputs
 - 2x Digital Outputs
- 1x USB connector

Data

- GPRS
- SMS

Attributes

- Power management for low power consumption
- Configurable transmission interval over SMS and GPRS
- Optimized for battery operation
- Power Consumption
 - Sending Data 230 – 360mA
 - Active mode 1.5mA
 - Sleep mode <230µA
- 1KB EEPROM memory
- Cloud ready
- 4G, 3G or 2G data transmission (xE910-Quad)
- Extended temperature range -40°C to +85°C
- Dimensions: 75 x 50 x 27mm
- Micro SIM-cardholder (standard)
- Watchdog through Microchip PIC 18LF46K22
- Phyton* Script Interpreter, preprogrammed

Scope of Supply

- SenseCeiver I/O Gateway
- Integrated Antenna
- Power Supply 5-28V
- LI-Po battery only gateway operation
- Micro USB cable
- Starter SIM
- Cloud access, free up to 10 devices

Optional Accessories

- 12V battery pack for sensor and gateway-operation
- Housing IP65

Certifications

- CE

Order Code

- 2G Variant: **TER-SC_IO-2G-KIT**
- 3G Variant: **TER-SC_IO-3G-KIT**
- 4G Variant: **TER-SC_IO-4G-KIT**



- ### Available for
- EMEA
 - North America
 - Latin America
 - APAC
 - Australia

Complete, Ready to Use Access to the Internet of Things

