

SenseCeiver UART

Low Power Sensor Gateway for UART serial interfaces



Round Solutions Design Team

Designed and manufactured in Germany

Product Description

The SenseCeiver UART Gateway has been developed specifically for devices with 3.3V logic level **Serial Interfaces** to connect to the cloud. An excellent **energy efficiency** is achieved 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 UART Gateway is **preconfigured** from Round Solutions, to ensure a direct and pleasant start to the serial interface applications.

Data can be sent by SMS or GPRS to a device of your choice or to a **cloud**. The SenseCeiver UART 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 UART Gateway can be fully configured and diagnosed via SMS.

Additional Services

Round Solutions also offers optional **software development kits** for SenseCeiver UART 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 UART Gateway and cloud can be achieved. Through global automatic roaming, it is always active in the best network.

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

* Copyright © 1990-2015, Python Software Foundation

Interfaces

- 1x UART interface (with hardware flow control)
- 1x USB connector

Data

- GPRS
- SMS

Attributes

- Power management for low power consumption
- Configurable transmission interval over UART, 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
- Python* Script Interpreter, preprogrammed

Available for

- EMEA
- North America
- Latin America
- APAC
- Australia

Complete, Ready to Use Access to the Internet of Things



Scope of Supply

- SenseCeiver UART 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_UART-2G-KIT**
- 3G Variant: **TER-SC_UART-3G-KIT**
- 4G Variant: **TER-SC_UART-4G-KIT**

