

Bluetooth Low Energy RS232 Adapter

Serial data transmission via Bluetooth Low Energy



With LinTech's Bluetooth Low Energy RS232 adapters, serial data transmissions can be realized via a Bluetooth Low Energy connection. This is especially interesting for APPLE users, as IOS devices do not support serial data transfer via the classic Bluetooth with the SPP profile. Bluetooth Low Energy is a real alternative for many applications.

The adapters can work on any RS232 interface as BLE Central as well as BLE Peripheral. So it is possible to replace a serial data cable by a BLE connection with 2 adapters. Depending on the environmental conditions, ranges of up to 100 meters are possible.

The devices are the ideal solution to easily and quickly establish a data connection, e.g. for reading sensor data, remotely controlling devices or connecting two serial ports. The data rate can be up to 115 kbps. -

The adapters work according to the LinTech BLE SPP profile - this profile was specially developed by LinTech for the transmission of data via BLE, as there is no standard BLE profile.

LinTech provides a detailed description and also a demo app for customers who want to develop their own solution with the BLE RS232 Adapter.

Thanks to the low power consumption, the adapter can be supplied directly via the serial interface. For customers who work with mobile devices and do not want to do so, LinTech offers the version with integrated rechargeable battery. As an option, the devices are also available with a socket on request.

In addition, Lintech also offers a BLE USB adapter for devices that do not have a serial interface, e.g. PC/Tablet. Here the BLE USB Adapter can be used as a supplement. This is recognized by the operating system as a serial COM port.

Properties

Standards

- Bluetooth 4.0
- RS232 (D-SUB 9)

Max Data rate

- 115 kbps

Frequency range

- 2.402 ~ 2.480GHz

Transmitting power

- +9 dBm

Reception sensitivity

- -87dBm

Status indication via LED

- Mode (Central/Peripheral)
- Connection status
- Ready for operation
- Data transmission

Range of coverage in free field

- 70-100m

Supported Bluetooth Profiles

- LinTech BLE SPP Profile

Questions about these products?

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Environmental conditions

- Operating temperature: -20°C ~ +75°C
- Storage temperature: -30°C ~ +85°C

Dimensions (mm)

- 45x30x16 mm

Rechargeable battery (only with 1509-RS232/A)

- Li-Polymer Rechargeable battery
- 3,7V / 50mAh

Approvals

- CE
- BT SIG

The device is optionally also available as BLE Sniffer. In this case, the advertising data of found devices is given out transparently via the serial interface.

Order details

Title: BLE RS232 Adapter

Article number:

- Model without battery: 1509-RS232/M
- Model with battery: 1509/M/A

(Optional: the devices are available on request also with socket)

Scope of delivery

BLE RS232 Adapter (male)

Charger (only with 1509/A)

Description how to use



MADE IN GERMANY



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