

Bluetooth Low Energy SPP Software

Transparent data transmission via Bluetooth Low Energy

Standard Bluetooth has transmission profiles that control the communication between different devices; these include a serial port profile for transmitting data to and from one or more other devices.

However, the traditional Bluetooth profiles are not the same as those in Bluetooth Low Energy. There is no such thing as a standard Bluetooth serial port in Bluetooth Low Energy. However, there are many applications that require a mode of transmission that is similar to SPP – via BTLE, i.e. when exchanging data to or from APPLE IOS devices; for this reason, LinTech has defined its own BTLE-SPP profile. Whenever LinTech BTLE SPP firmware is used, application data is transmitted between a serial port and Bluetooth. This permits a transparent serial data transmission that is similar to the standard Bluetooth SPP profile. Data is transmitted bidirectionally. For example, if data is queried by several sensors, the connections to the individual sensors are set up one after the other and the data polled in cycles. Many functions can be used as with the regular SPP profile.

LinTech BTLE SPP firmware can be used for BLE centrals and or for BLE peripherals. This means that it is possible to exchange data via a serial connection between two devices using the LinTech BTLE SPP module or data can be

exchanged between a BTLE SPP peripheral (e.g. a sensor) and a smartphone, using the corresponding app.

Functions:

- Supports Bluetooth Low Energy
- Transparent full-duplex data transmission
- Auto-connect and auto-pairing with the nearest LinTech BTLE SPP device
- Communication and data exchange via UART
- Connection parameters and basic settings may also be configured via UART using AT commands
- Supports BLE modules with CSR/Qualcomm or NORDIC chipset

BTLE-SPP evaluation board is available from LinTech.



Ordering information:

Part # 5240 – Rayson BTM-800 with BTLE-SPP
Part # BTLE-EVAI - BTLE-SPP testboard



If you have any questions about this product, please contact:

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