



## The Bluetooth® Solution for OEM-Partners and System Integrators

### BlueBear Evaluation Kit Bluetooth® 2.0 EDR



The lesswire Bluetooth® 2.0 EDR Evaluation Kit consists of an evaluation board and a Long Range SPP-Bluetooth® 2.0 EDR Module or a Long Range HCI-Bluetooth® 2.0 EDR Module (option). The evaluation kit provides easy access to all interfaces of the Industrial Long Range SPP-Bluetooth® Module or the Industrial Long Range HCI-Bluetooth® Module.

The evaluation board can be powered by an external power supply or directly over the USB port (USB cable not included).

The included external antenna (or any other antenna with an impedance of 50 Ohm) can be connected to the SMA connector.

The 9-pin RS232 interface provides a serial connection to the PC COM port via a serial cable (serial cable not included).

The SPI interface enables an easy module firmware update (SPI cable included) and is compatible to the CSR Bluetooth environment.

#### Evaluation Board Technical Data:

##### Bluetooth®

- Bluetooth®-Module with CSR-BC04- chipset
- Radio class: Class 1  
RF transmission power: max. +21 dBm  
RF input sensitivity: typical -94 dBm
- Integrated Serial Port Profile (SPP option) or HCI over USB/UART (HCI option)

##### Connectors

- USB/UART
- PCM (audio)
- 12 PIOs (VOH min. 3,1V / VOL max. 0,2V / VOH min. 3,1V)
- 2 AIO's (VOH min. 3,1V / VOL max. 0,2V / VOH min. 3,1V)
- SPI (programming interface)

##### Power supply

- 4,8V- 7,5V / max. 50mA

##### Antenna

- External antenna (SMA)

##### Display

- Power On LED display
- RF interface activity LED display
- Output for LED to signal device state over GPIO (SPP option)

##### Operation (SPP option)

- Service channels for configuration and operation
- Configuration by AT commands over Bluetooth®

##### Configuration / Programming (SPP option)

- Setup of configuration parameters by AT commands. Configuration is stored persistently in the module
- Serial Peripheral Interface (SPI) for programming (firmware update)

Please find the detailed product sheets for the Long Range SPP-Bluetooth® BlueBear Module or the Long Range HCI-Bluetooth® BlueBear Module on our homepage – [www.lesswire.com](http://www.lesswire.com) in the Products section.

#### Package Contents:

- Evaluation Board with Long Range BlueBear SPP Module or Long Range BlueBear HCI -Module
- SPI cable
- External antenna
- power supply

#### Ordering information:

- AN00956867 Evaluation Kit with BlueBear HCI
- AN00956867 Evaluation Kit with BlueBear SPP

