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Bluetooth®

Bluetooth Low Energy Dongle

Description

BLED112, *Bluetooth* low energy USB Dongle is a single mode USB device enabling *Bluetooth* low energy connectivity for PC's and other devices having a USB port.

BLED112 *Bluetooth* Dongle integrates all *Bluetooth* 4.0 single mode features. The USB dongle can simulate standard USB device, virtual COM port or USB HID device. The HID can be used for accessories like keyboards and mice, because no driver is needed. The COM port emulation enables simple host application development using a simple application programming interface.

The BLED112 can be used for *Bluetooth* low energy development. With two BLE112 dongles you can quickly prototype new low energy application profiles by utilizing Bluegiga BG Profile Toolkit™ and also automate in-module software functions with BG Script™.

Key Features

▷ *Bluetooth* v.4.0, single mode compliant
   - Supports master and slave modes
   - 4+ simultaneous connection is master mode

▷ Integrated *Bluetooth* low energy stack
   - GAP, GATT, L2CAP, SMP
   - Bluetooth low energy profiles

▷ Radio performance
   - TX power: +4 dBm to -23dBm
   - RX sensitivity: -87dBm to -93dBm

▷ USB, USB HID and virtual COM port emulation

▷ *Bluetooth* end product, CE, FCC and IC and Telec qualified

Target Applications

▷ Human Interface Device hosts

▷ Sports and fitness

▷ PC security

▷ PC accessories

▷ Bluetooth low energy connectivity

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Development And Evaluation Tools

- BLE112 starter kit
- *Bluetooth* low energy USB dongle
- BGScript™ : scripting language
- Profile toolkit™

Product Codes

- BLED112:   BLE dongle, Housed
- BLEDoem112: BLE112, OEM version

Certifications

- Bluetooth 4.0
- CE, FCC, Industry Canada and Telec

Bluetooth Low Energy Features

- *Bluetooth* 4.0 single mode compliant radio
- Master and slave mode support
- L2CAP, GAP, ATT and GATT support
- Security manager
- Advertizing, broadcasting, connections
- Built-in profiles

Hardware Features

- Bluetooth low energy radio
- Built-in antenna
- 8051 microcontroller
    - 8 kB RAM
    - 128kB flash
- USB 2.0 device
- Programmable led
- 3 x timer
- Integrated temperature sensor

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