

Bluetooth Low Energy Dongle



Key Features

- ▶ Bluetooth v.4.0, single mode compliant
 - Supports master and slave modes
 - 4+ simultaneous connection in 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

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™.

Target Applications

- ▶ Human Interface Device hosts
- ▶ Sports and fitness
- ▶ PC security
- ▶ PC accessories
- ▶ Bluetooth low energy connectivity





Bluetooth Low Energy Features

- Bluetooth 4.0 single mode compliant radio
- Master and slave mode support
- L2CAP, GAP, ATT and GATT support
- Security manager
- Advertising, 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

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

For more information about Bluegiga Technologies, please contact:

www.bluegiga.com
sales@bluegiga.com

Bluegiga Technologies Oy
Sinikalliontie 5 A
02630 Espoo, Finland
Phone: +358 9 435 50 60
Fax: +358 9 435 50 660

© Bluegiga Technologies 2000-2011.

Bluegiga Technologies takes no responsibility for any mistakes that might appear in this document. It reserves the right to change devices, software or specifications detailed here at any time without notice, and does not make any commitment to update the information contained here. Bluegiga products are not authorised for any use as critical components in life support devices or systems. Bluegiga Access Server, Access Point, BSM, iWRAP and BG Profile Toolkit, BG Script are trademarks of Bluegiga Technologies. The Bluetooth trademark and logo are registered trademarks and are owned by the Bluetooth SIG, Inc.