

# Bluegiga BLED112-V1 USB-BLE dongle

**Brand:** Smartjac Industries Inc  
**Product Code:** SMAGA1676949A



## Short Description

USB dongle supporting Bluetooth Smart (eg Low Energy). Bluetooth Smart Ready for Linux, Android & Windows devices.

## Description

The BLED112 Bluetooth Smart Dongle integrates all Bluetooth Smart features. The USB dongle has a virtual COM port that enables seamless host application development using a simple application programming interface. The BLED112 can be used for Bluetooth Smart development. With two BLED112 dongles you can quickly prototype new Bluetooth Smart application profiles by utilizing Bluegiga's Profile Toolkit™ and also automate in module software functions with Bluegiga's BGScript™.

- 1: Integrates all Bluetooth Smart features
  - 2: For Windows and Android
  - 3: No need of any additional hardware to connect your machine to a Bluetooth Smart peripheral
  - 4: Compliance: Bluetooth, CE, FCC
- Net Weight: 0.1 KILOGRAM

## Key Benefits

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## **Fully integrated Bluetooth Smart solution**

Integrated Bluetooth Radio, micro controller and software stack

Fast time-to-market

Low development risks

## **Application hosting capabilities**

All application code can be executed on the BLE112

No need for external micro controller

Lower cost and smaller size

## **Bluetooth, CE, FCC, IC, South Korea, and Japan qualified**

Proven interoperability

Minimal qualification costs

## **Flash based**

Firmware is field upgradeable

Application data can be stored on the flash

Settings can be stored on the flash

## **Good radio performance**

Long range and robust connections

Software programmable TX power

## **Specifications**

### **Radio features:**

Bluetooth 4.0 low energy radio

Transmit power: +0 dBm

Receiver sensitivity: -93 dBm

### **Bluetooth features:**

Bluetooth Smart (low energy) support

L2CAP, ATT, GATT, GAP and Security Manager

Bluetooth Smart profiles

Client and master mode

Up to eight connections in master mode

100kbps+ throughput

### **Hardware features:**

USB host interface

Temperature range: -40° C to +85°C

**MCU features:**

8051 microcontroller

8kB RAM

128kB Flash

**Software features:**

Embedded Bluegiga Bluetooth Smart Stack

BGAPI™ host protocol

Bluegiga BGScript™ programming for standalone applications

Bluegiga Profile Toolkit™ for developing Bluetooth Smart profiles

**Qualifications:**

Bluetooth

CE

FCC

IC

Japan

South Korea