

# **EGIGATEK eGM-A18 Brief**

*( CSR8510 based Bluetooth 4.0 LE Dual Mode USB HCI Module )*

## **1. DESCRIPTION**

eGM-A18 is a single-chip radio and baseband solution for Bluetooth 2.4GHz systems including EDR to 3Mbps. Dedicated signal and baseband processing is included for full Bluetooth operation. EGIGA designed CSR8510 based eGM-A18 module/dongle PCBA to reduce PCB area and the number of external components, including no requirement for an external balun.

## **2. FEATURES**

- As eGD-A18 USB Dongle PCBA
- Support for Bluetooth low energy available with CSR8510WLCSP
- Fully qualified Bluetooth v4.0 specification system
- Dual-mode Bluetooth/Bluetooth low energy operation
- HCI mode operation with full Bluetooth stack
- HID proxy mode for boot mode support and stackless operation
- High-sensitivity Bluetooth and Bluetooth low energy receiver
- Class 1/2/3 support without external power amplifier or TX/RX switch
- Baseband processor running Bluetooth HCI firmware stack
- No external regulators required for USB supply operation
- Full-speed USB 2.0 interface
- WLAN coexistence interface
- External EEPROM I2C interface
- On-chip synthesizer
- Internal power regulation for self-contained operation from USB vbus for dongles
- Selectable I/O voltage
- Real-time signal strength indicator (RSSI)
- Dimensions: 16.5 mm x 11.3 mm x 1.8mm(with printed antenna)
- Storage temperature range: -40°C ~ +85°C
- Operating temperature range: -30°C ~ +85°C

### 3. APPLICATIONS

A. Computing devices including:

- PCs
- All-in-Ones
- Laptops
- Netbooks
- Tablets

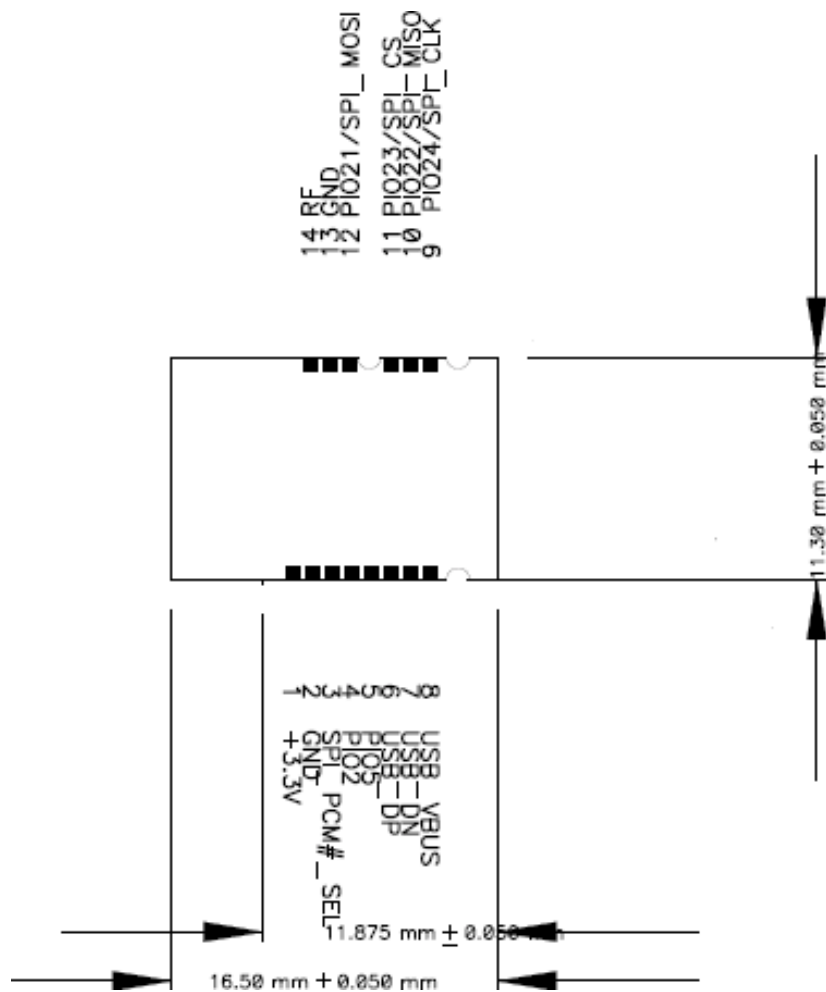
B. Embedded home entertainment devices including:

- Digital TVs
- Set-top Boxes

C. After-market low-power Bluetooth accessories:

- USB dongles

### 4. Dimensions (in mm)



## 5. Recommended Land Pattern

