

EGIGATEK eGM-A16 Brief

(CSR8811 BT4.0 Dual Mode BR/EDR/LE + ST Cortex-M3 Module)

1. Description

eGM-A16 is a qualified Bluetooth V4.0 Dual Mode BR/EDR/LE system. eGM-A16 is a fully integrated CSR8811 with ST Cortex-M3 application processor solution and powerful class 2 bluetooth module. Having their own particularly well-suited for many advanced applications. eGM-A16 owns sufficient pin definitions, high receiving sensitivity and very low power consumption.

2. Features

- Bluetooth specification V4.0 compliant
- Supports BR/EDR/LE
- Supports Dual Mode
- CSR8811 BlueCore08 and Application Processor inside
- Complete Co-location and Co-existence with 802.11 (AFH, Unity 3e+)
- Fast Connection Setup
- RF output power up to +7dBm with power control
- Supply Voltage range 2,5V to 3,6V, typical 3.3V
- Internal crystal oscillator (26 MHz and 14,7456 MHz)
- LGA Surface mount type: 17.0 x 10.0 x 2.6 mm
- Bluetooth enhanced data rate up to 2178kbps asymmetric
- Support for all Bluetooth power saving modes (Park, Sniff, Hold)
- Optional support for ultra-low-power mode
- Full 8- to 128-bit encryption
- High sensitivity design
- High-speed UART interface
- I2C interface
- SPI interface
- Up to 11 digital IO's for individual usage by embedded software
- Cortex-M3 STM32F103 core for embedded profiles or application software

3. Function

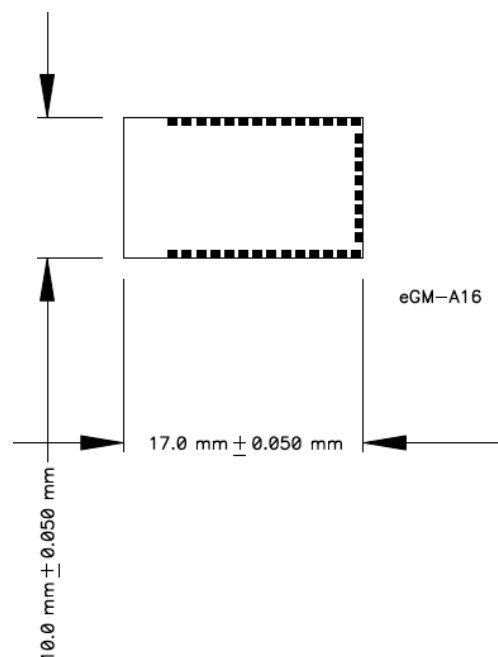
The eGM-A16 can be used in different applications. Regardless if the application requires high throughput or low energy consumption, eGM-A16 offers the best of both worlds. Some typical applications are described in this chapter.

Supported profiles are:

- a. BR/EDR: SPP
- b. LE: Terminal IO(SPP like) and any GATT based LE-profile

Support for any additional profile is possible on request.

4. Dimensions



5. Land pattern

