

***Bluetooth*[®] Module**

EYSMACAXX

Overview

January 7, 2014 Version 1.0

EYSMACAXX: *Bluetooth*[®] Module

Features

- The module is a Max.4dBm(Class2) module.
- Bluetooth*[®] standard Ver. 2.1+EDR conformity.
- Internal baseband clock oscillator.
- Low current consumption
- Support functions.
 - Hold, Sniff, Park, AFH & Faster connection,
 - EDR, SSP, SSR, EIR, EPR
- Interface: UART/PCM
- Protocol stack: Under HCI firmware.
- Outline: 8.1 x 9.2 x 1.6 mm (Max.)
- Complete Lead Free
- RoHS Available

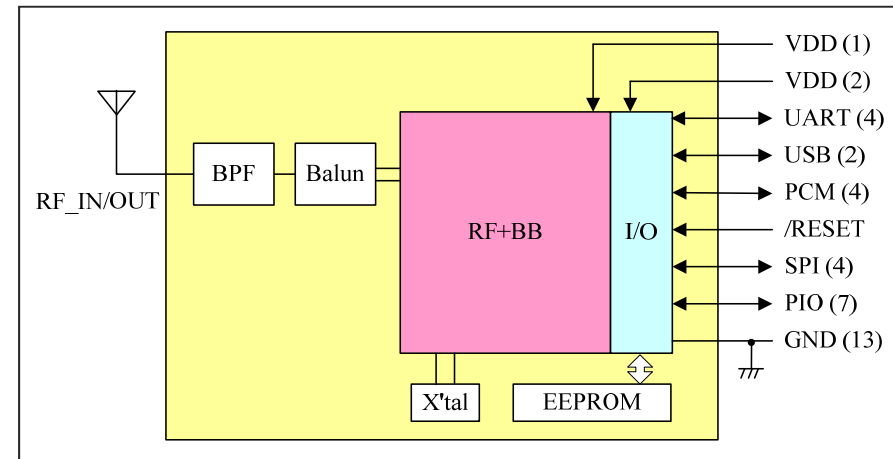
Applications

- PC Peripheral
- Handy terminal
- PDA

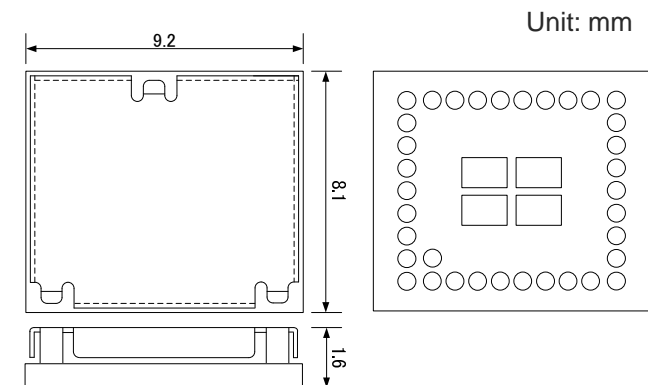
General Electrical Specification

| Parameter | Description | Min. | Typ. | Max. | Units |
|-----------------------------|------------------------------|-----------|------|----------|-------|
| Carrier Frequency | | 2.402 | | 2.480 | GHz |
| Operating Voltage (VDD) | | 3.15 | 3.3 | 3.45 | V |
| RF Output Power | Measured in 50 ohm | -6 | 0 | 4 | dBm |
| RX Sensitivity | | - | -83 | -70 | dBm |
| Load Impedance | No abnormal Oscillation | - | | 5:1 | - |
| Input Low Voltage | /RESET, UART, PIOX, PCM, SPI | -0.3 | | 0.8 | V |
| Input Low Voltage | USB | - | | 0.8 | V |
| Input High Voltage | /RESET, UART, PIOX, PCM, SPI | 0.7 x VDD | | VDD +0.3 | V |
| Input High Voltage | USB | 2.0 | | - | V |
| Output Low Voltage | UART, PIOX, PCM, SPI | - | | 0.4 | V |
| Output Low Voltage | USB | - | | 0.3 | V |
| Output High Voltage | UART, PIOX, PCM, SPI | 0.8 x VDD | | - | V |
| Output High Voltage | USB | 2.8 | | - | V |
| Average Current Consumption | Receive DM1 | - | TBD | - | mA |

Block Diagram



Outline



Note: The above PRELIMINARY data are not guaranteed and are subject to change without notice.

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Supplemental Product Information

How to evaluate EYSMACAXX

Evaluation board is not available for EYSMACAXX. However, you can evaluate EYSMACAXX as following:

- IC chip performance and software evaluation
You can use EBSFDCAXX in which the same IC chip and software as in EYSMACAXX is implemented.
- RF performance
You should mount EYSMACAXX to your motherboard.

Technical detail will be provided after our module being.

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