

***Bluetooth*[®] Module
with Antenna & Connector
EYSFDCAXX & EBSFDCAXX
Overview**

January 7, 2014 Version 1.0

EYSFDCAXX: *Bluetooth*® Module with Antenna and Connector (UART)

Features

- The module is a Max. 4dBm (Class2) module.
- Bluetooth*® standard Ver. 2.1+EDR conformity.
- Internal baseband clock oscillator.
- Support functions.
 - ACL links, (e)SCO links, Hold, Sniff, Park, AFH, Faster Inquiry & Connection, EDR, SSP, SSR, EIR, EPR
- Interface: UART, PCM
- Protocol stack: Under HCI firmware.
- Outline: **31 x 15 x 3** mm (Max.)
- Complete Lead Free
- RoHS (2002/95/EC) Available

Applications

- PC Peripheral

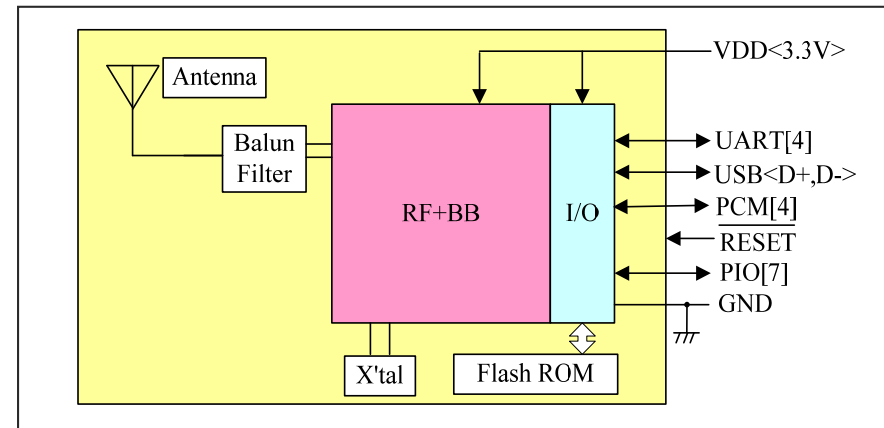
General Electrical Specification

Parameter	Description	Min.	Typ.	Max.	Units
Carrier Frequency		2.402		2.480	GHz
Operating Voltage (VDD)	UART Interface	3	3.3	3.6	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, PIOX, PCM_IN, PCM_CLK, PCM_SYNC, UART_RX, UART_CTS	-0.3		0.8	V
Input High Voltage	/RESET, PIOX, PCM_IN, PCM_CLK, PCM_SYNC, UART_RX, UART_CTS	0.7 x VDD		VDD +0.3	V
Output Low Voltage	PIOX, PCM_OUT, PCM_CLK, PCM_SYNC, UART_TX, UART_RTS	-		0.4	V
Output High Voltage	PIOX, PCM_OUT, PCM_CLK, PCM_SYNC, UART_TX, UART_RTS	VDD -0.4		-	V
Average Current Consumption	Receive Data		40	-	mA

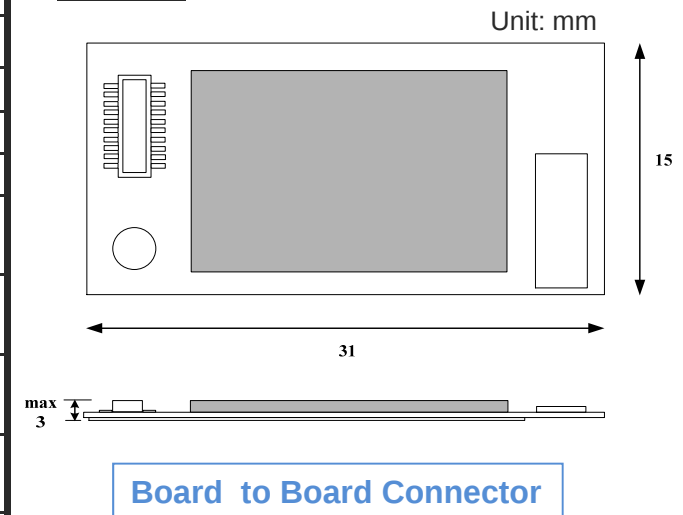
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Block Diagram



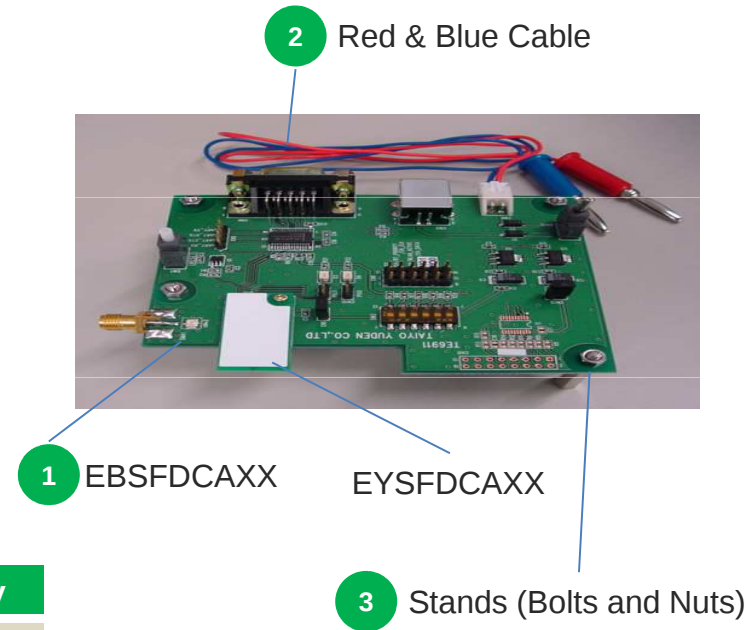
Outline



EBSFDCAXX: *Bluetooth*® Module Evaluation Kit

To Evaluate *Bluetooth*® Module EYSFDCAXX,
You Will Need EBSFDCAXX

EBSFDCAXX is the evaluation kit for *Bluetooth*® Module **EYSFDCAXX**. This kit has everything you need to evaluate the performance of this module.



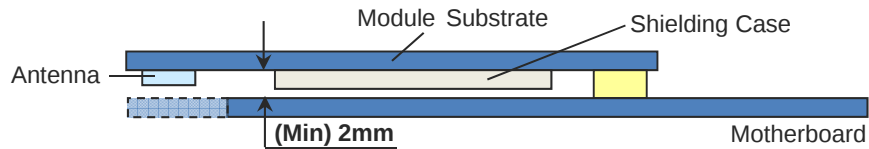
EBSFDCAXX Kit includes:

No.	Item	Description	Qty
1	EBSFDCAXX	Evaluation Board for <i>Bluetooth</i> ® module EYSFDCAXX with UART interface	1 piece
2	Red & Blue Cable	Power Supply Cable	1 piece
3	Stands (Bolts and Nuts)	4 Bolts and 4 Nuts	1 set
4	CD-ROM disk	Documents and Software tool	1 disc

Supplemental Product Information

Module implementation

In order to ensure module antenna performance, the space between module substrate and your motherboard must be more than 2mm as following figure.



Technical detail will be provided after our module being purchased.

TAIYO YUDEN

Mouser Electronics

Authorized Distributor

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[EBSFDCAXX-XT](#)