

TAIYO YUDEN

Bluetooth® Module

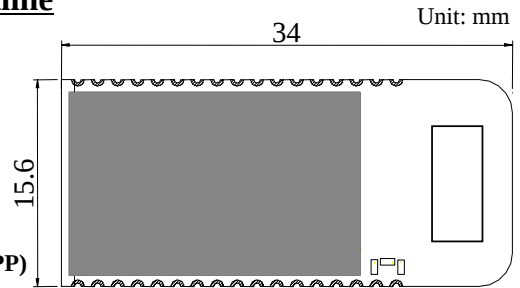
Simple Cable Replacement

EYMF2CA**-**

Features

- Antenna is provided on board
- The module is Max.4 dBm(Class2)module
- Bluetooth® standard Ver.1.1 conformity
- Internal baseband clock oscillator
- Low current consumption
- Support functions
Serial Port Emulation (Point-To-Point)
- Interface: UART
- Protocol Stack/Profile (L2CAP, RFCOMM, SDP, GAP, SPP)
- Outline: 34.0 x 15.6 x 3.7 mm

Outline



Unit: mm

Applications

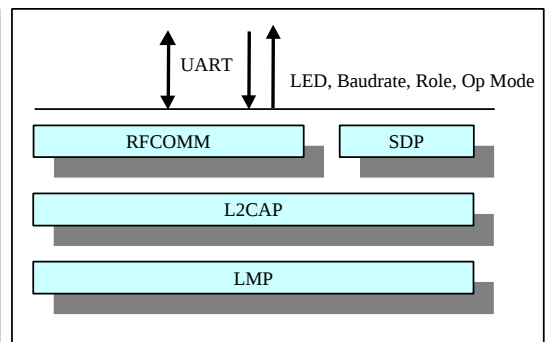
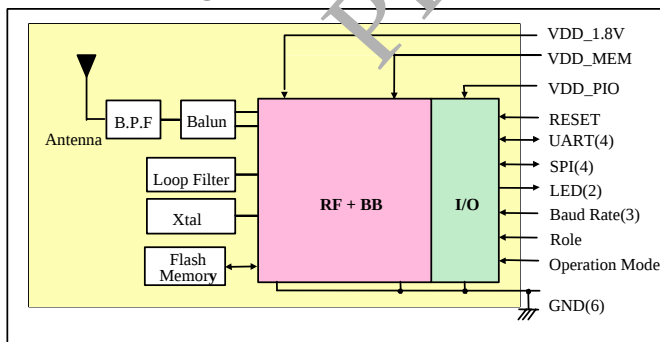
- POS, Barcode Reader, FA equipments



General Electrical Specification

Parameter	Description	Min.	Typ.	Max.	Units
Carrier Frequency		2.402		2.480	GHz
Operating Voltage(VDD_MEM)		3.0	3.3	3.6	V
Operating Voltage(VDD_PIO)		3.0	3.3	3.6	V
Operating Voltage(VDD_1.8V)		1.7	1.8	1.9	V
RF Output Power	Measured in 50 ohm	-6	0	4	dBm
RX Sensitivity		-	-83	-70	dBm
Load Impedance	No abnormal Oscillation	-		5:1	-
Operation temperature range		0	25	70	Degree C
Input Low Voltage	PIO, AIO, SPI	-0.3		0.8	V
Input Low Voltage	UART_RX, UART_CTS	-0.3		0.8	V
Input Low Voltage	RESET	-0.3		0.8	V
Input High Voltage	PIO, AIO, SPI	0.7VDD_PIO		VDD +0.3	V
Input High Voltage	UART_RX, UART_CTS	0.7VDD_PIO		VDD +0.3	V
Input High Voltage	RESET	0.7VDD_PIO		VDD +0.3	V
Output Low Voltage	PIO, AIO, SPI	-		0.4	V
Output Low Voltage	UART_TX, UART_RTS	-		0.4	V
Output High Voltage	PIO, AIO, SPI	VDD -0.4		-	V
Output High Voltage	UART_TX, UART_RTS	VDD -0.4		-	V
Average Current Consumption 1	Receive DM1 Packet		TBD	-	mA

Block Diagram



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