



Class 2 UART Full Module (RM+C+BC) EYSF2SAXX

● Features

- The module is a Max 4dBm(Class2) module
- Internal baseband clock & real time clock oscillator
- RF section is shielded
- Low current consumption
- Interface EYSF2SAXX (UART)
- HCI firmware included
- Small outline 32×16×2.4mm

● Applications

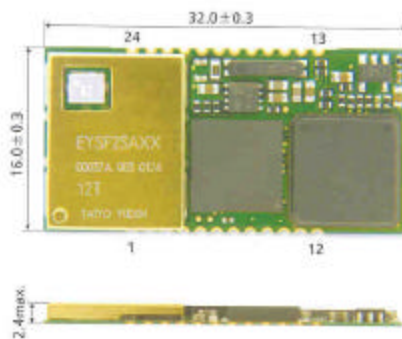
- Notebook PC
- PDA
- Cellular Phone

● Technical Specifications

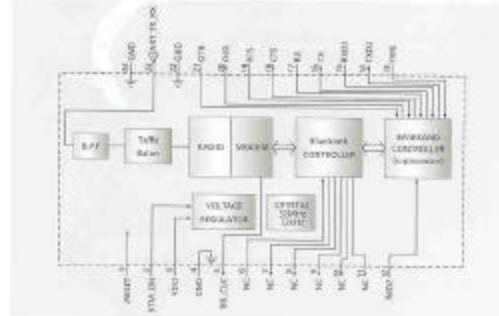
Parameter	Description	Min	Typ.	Max.	Units
Carrier Frequency		2.402		2.480	GHz
Operating Voltage		3.15	3.3	5.5	V
RF Output Power	Measured in 50Ω	-6	TBD	4	dBm
RX Sensitivity		-40		-70	dBm
Load Impedance	No Abnormal Oscillation	2:1		5:1	

● Outline

- 24pin Leadless Chip Carrier (Solderable With Side Pad)



● Block Diagram



● Pin Description

No.	Pin Name	Type	Direction	Description	Block
1	RESET	CMOS	Input	Active Low Reset, See Note 1	
2	BTM_ON	CMOS	Input	When Tied To VDD, The Module is Enabled	
3	VDD	Power	Power	Power Supply Voltage	Power Supply
4	GND	Power	Power	Signal Ground	
5	BR_CLK	CMOS	Output	Do Not Connect - Baseband Clock Check Port	
6	NC	NC	-	Do Not Connect	
7	NC	NC	-	Do Not Connect	
8	NC	NC	-	Do Not Connect	
9	NC	NC	-	Do Not Connect	
10	NC	NC	-	Do Not Connect	
11	NC	NC	-	Do Not Connect	
12	MD2	CMOS	Input	Do Not Connect - Flash ROM Write Port	Flash ROM Write
13	PWE	CMOS	Input	Do Not Connect - Flash ROM Write Port	
14	TXD2	CMOS	Output	Do Not Connect - Flash ROM Write Port	
15	RXD2	CMOS	Input	Do Not Connect - Flash ROM Write Port	
16	TX	CMOS	Output	TX Data From The UART	UART
17	RX	CMOS	Input	RX Data To The UART	
18	CTS	CMOS	Output	Clear To Send Data From The UART	
19	RTS	CMOS	Input	Flow Control Signal, Request To Send Data From The UART	
20	DSR	CMOS	Output	Data Set Ready	
21	DTR	CMOS	Input	Data Terminal Ready	
22	GND	Power	Power	Radio Frequency Ground	RF
23	ANT_TX_RX	RF	In/Out	50 Ohm Antenna Connection	
24	GND	Power	Power	Radio Frequency Ground	

Note: The CMOS buffers are low voltage TTL compatible signals.
Please see page 6 for other NOTE.

● DC Specifications

No.	Parameter	Condition	Symbol	Min.	Typ.	Max.	Unit	Remark
1	Normal Supply Voltage		VDD	3.15	3.3	5.5	V	
2	Internal Voltage		Vref	2.81	3	3.18	V	
3	Input Low Voltage	RX, RTS, DTR	VIL1	-0.3		Vref × 0.2	V	
4	Input Low Voltage	BTM_ON	VIL2	0		0.2	V	
5	Input Low Voltage	RESET	VIL3	0		0.6	V	
6	Input High Voltage	RX, RTS, DTR	VIH1	Vref × 0.8		Vref + 0.3	V	
7	Input High Voltage	BTM_ON	VIH2	2.0		VDD	V	
8	Input High Voltage	RESET	VIH3	2.0		Vref	V	
9	Output Low Voltage	TX, CTS, DSR	VOL			0.4	V	IO<6mA
10	Output High Voltage	TX, CTS, DSR	VOH	Vref - 0.5			V	IO<6mA