

RF Products Line Card



	Module	Demo Board	Freq (MHz)	Channels	Data Rate [Kbps]	Pout [dbm]	RX curr [mA]	TX curr [mA]
Transceiver	BIT04RT	Apple	433	11	500	10	15	29
	BIT08RT	Apple	868/915	50	500	10	15	29
	BIT24RT	Apple	2400	100	500	1	15	29
Radiomodem	BIT04RM(L)	Apple	433	11	250	10	20	30
	BIT08RM(L)	Apple	868/915	11	250	10	20	30
	BIT24RM(L)	Apple	2400	100	250	1	20	30
RF Front-End	BIT04PA		433			18	0.025	50
	BIT08PA		868			18	0.025	50
Transmitter	BIT48TX/PA		433 & 868	4	500	18		50

About BIT:

BIT designs, produce and sells standard RF modules operating in the license-free, ISM frequency bands @ 300-2400 MHz. Modules are small, low cost and ready for SMD assembly. 4 type of modules are available:

- Transceivers
- Radio Modem
- RF front-end
- Transmitter

BIT can also customize specific solutions and design complete embedded RF applications

Services

- Custom designs
- Application specific RF designs
- Complete embedded application designs



Bit is Italian Technology S.r.l.

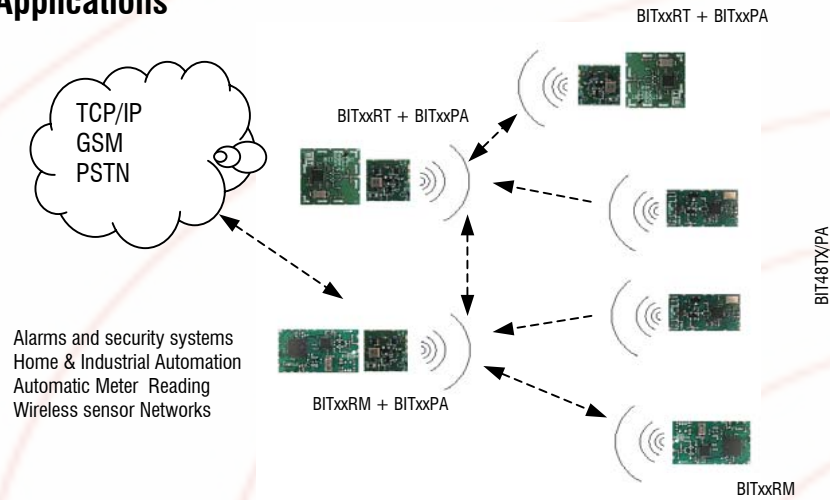
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Your Best Partner for Embedded RF design!

Applications



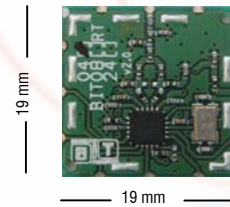
Development Kit

Development kit contains two demo board with modules and antennas.
They are ready to operate with a simple connection to a PC terminal or a host microcontroller via UART interface.
The development kits are ideal for rapid prototyping and can help the customer to take their ideas to the market at a minimum time and cost.



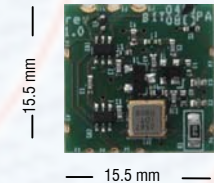
BITxxRT

- Very low cost
- Very small footprint: 19x19 mm
- Operating voltage: 1.8 – 3.6 V
- Very low power consumption
- Highly configurable:
- Data rate up to 500 kbps
- Modulation format: ASK, GFSK, MSK
- Output power up to 10 dBm
- Channel spacing
- Forward error correction



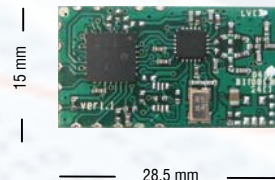
BITxxPA

- Low cost
- Very small footprint: 15.5x15.5 mm
- VPA operating voltage: 1.8 – 12 V
- Low power consumption
- Up to 18 dBm output power
- Input/Output impedance 50 ohm



BITxxRM(L)

- Very small footprint: 15.5x28.5 mm
- Operating voltage:
 - 1.8 – 3.6 V BITxxRML
 - 2.7 – 5.5 V BITxxRM
- UART interface up to 76.8 kbps
- Extended set of AT commands for configuration
- RF Data rate up to 125 kbps
- Modulation format: GFSK, MSK
- Output power up to 10 dBm
- Programmable Packet length
- Programmable RF Channel
- Forward error correction
- Remote I/O configuration



BIT48TX/PA

- Low cost
- Very small footprint: 13x23 mm
- VDD operating voltage: 1.8 – 3.6 V
- VPA operating voltage: 1.8 – 12 V
- Low power consumption
- Highly configurable:
- Data rate up to 500 kbps
- Modulation format: ASK, GFSK, MSK
- Channel spacing
- Forward error correction

