2400 Wireless

2.4 GHz Transceiver

Part Number: CC15380-1

Features

The Zebra 2400 Wireless is a 2.4 Ghz radio designed for OEM applications that operate in the unlicensed FCC band between 2.4-2.5 Ghz. The 2400 Wireless can be used for communications where physical connection is not desired. The following objectives can be achieved with the 2400 Wireless, (i) provides a limited range radio (20-30 feet line of sight), (ii) minimizes parts count and associated cost, (iii) acts as a cable replacement when used together with Zebra Wireless printers. When combined with Zebra's Intelligent Wireless Controller (part number CQ13867-1), the 2400 Wireless can be attached to any RS232C port. To minimize integration headaches, the 2400 Wireless has modular FCC approval, which means that no additional FCC approval is required by the OEM providing an approved antenna is used.

Actual Size

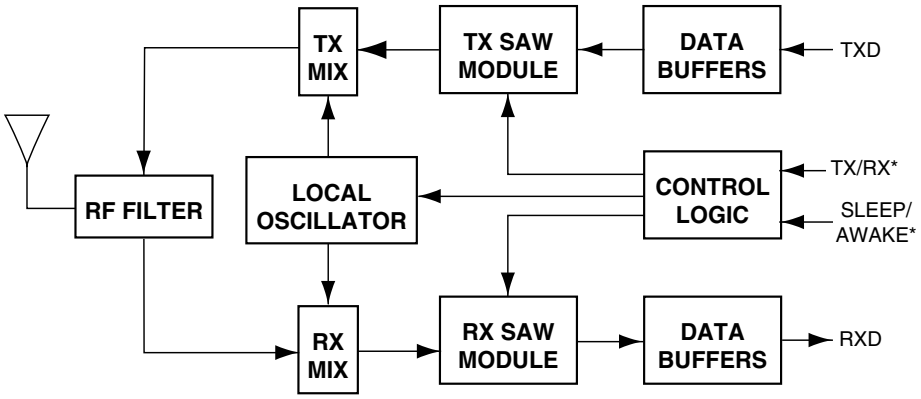
Note: The modular approval for this radio only applies for battery powered equipment. Installation of this radio into A.C. connected equipment requires additional regulatory approval. Please contact Zebra Technologies Corporation for details.

Electrical

Input Voltage:	Vcc = 5 Volts +,-10%		
Power Dissipation:	250 mW (receive mode)		
	350mW (transmit mode)		
	<5 mW (sleep mode)		
Current Consumption:	50 mA (receive mode)		
	70 mA (transmit mode)		
	<1 mA (sleep mode)		
Operating Frequency:	2.482 GHz		
Transmit Power Output:	-10 dBm (typical)		
Receiver Sensitivity:	-85 dBm (typical)		
Out of band interfering signal rejection:	60 dB (typical)		
Baud rate:	user selectable		
J1 Pin Assignments:	Pin #	Signal Name[1]	Description
	Pin 1	sleep/awake*	1 = sleep
	Pin 2	Vcc	
	Pin 3	RXD	Receive Data
	Pin 4	TX/RX*	1 = transmit
	Pin 5	No connect	
	Pin 6	TXD	Transmit Data
	Pin 7	GND	
	Pin 8	GND	
J2 Pin Assignments: (Optional)	Pin #	Signal Name[1]	Description
	Pin 1	GND	
	Pin 2	GND	
J3 Pin Assignments: (Optional)	Pin #	Signal Name[1]	Description
	Pin 1	GND	
	Pin 2	GND	

1. All signals are at CMOS levels

2400 Wireless Block Diagram



Software

When the Intelligent Wireless Controller (P/N CQ13967-1) is not used, Zebra can provide C source code for a CS/CDMA collision avoidance communications protocol. This software supports multiple radio pairs operating in proximity to each other, and implements error detection, retries and radio address association. The radio address association algorithm is based on radio or product serial number.

Regulatory

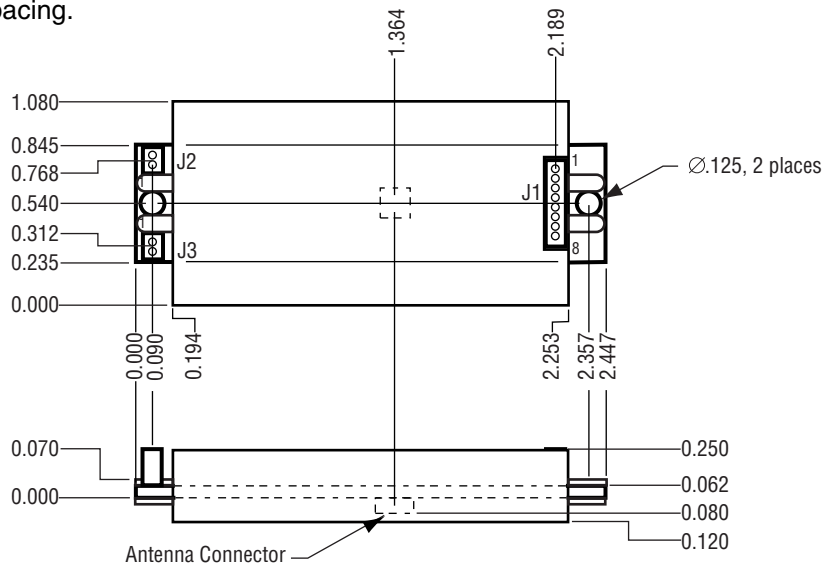
Approvals:	FCC Modular, ID Number: I28MD-TRCV-24GHZ
Canada:	Canada RSS210 Certification # 37981032228A
Product Labelling Requirements	Any final product that contains this radio must have a permanently affixed label visible from the outside of the product that says the following: "Contains FCC ID: I28MD-TRCV-24GHz."

Physical

Connectors: Antenna - SSMT, M/A-COM part number 2367-5002-54
Data (J1) - 8 pin female, Samtec part number SLM-108-01-S-S
Optional ground connectors (J2, J3)- 2 pin female, Samtec part number SLM-102-01-S-S

Connectors mate with Samtec MTMS family. Part number is dependent on desired board spacing.

Dimensions:



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