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EmbeddedBlue[™] eb100-SER

Bluetooth[®] RADIO MODULE

Features and Benefits

- Simple serial UART communications and control
- Seamless connectivity with any Bluetooth device
- Provides a low cost solution for small to medium volume applications
- 2.4GHz FHSS (Frequency Hopping Spread Spectrum) technology ensures high reliability and is robust to interference
- Features a unique surface mount pad design that can be either flow soldered for automated manufacturing or hand soldered for building prototypes.
- Low current consumption for long battery life
- Small overall size of 14.5mm x 25mm x 2.1mm

Applications

The EmbeddedBlue Series eb100-SER Bluetooth Radio Module is ideal for enabling cost sensitive designs with a widely supported industry standard wireless protocol. Monitoring and control applications will benefit from an integrated implementation of the serial port profile for seamless connectivity with desktop computers, PDAs, and cellular phones. A focus on low current consumption makes the eb100-SER ideal for use in standalone battery powered devices common to robotics and remote data capture.

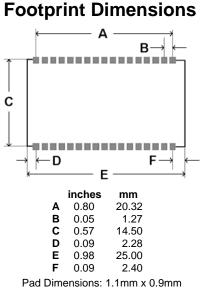
Description

The eb100-SER implements all components of the Bluetooth stack on board so that additional host processor code is not required. Once a connection to another Bluetooth device has been established, the link has the appearance of a cabled serial connection eliminating the need for special wireless protocol knowledge.

Simple UART communication facilitates the interface between the host processor and the Series eb100-SER radio. This UART interface may be used to discover, connect, and communicate with other Bluetooth devices.



Specifications and Ordering Information



GND

GND

DIO5

DIO4

Status

Mode

DIO3

DIO2

DIO1

DIO0

GND

GND

RF

Pinout

Pin 1	GND	Pin 22
Pin 3	GND	Pin 23
Pin 4	DIO6	Pin 24
Pin 5	DIO7	Pin 25
Pin 6	RESET	Pin 26
Pin 11	CTS	Pin 27
Pin 12	ТΧ	Pin 28
Pin 13	RTS	Pin 29
Pin 14	RX	Pin 30
Pin 15	1.8V	Pin 31
Pin 16	3.3V	Pin 32
Pin 17	GND	Pin 33
		Pin 34

All other pins are reserved for future enhancements.

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wireless building blocks

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Specifications

Ordering Information

Part Number Description		Price
eb100-SER-KIT	eb100 development kit	\$199
eb100-SER-10	ten pack of modules	\$300
eb100-SER-100 one-hundred pack of modules		\$2500

Manufactured and Distributed by:

A7 Engineering Incorporated 12860 C Danielson Court

Poway, CA 92064 Tel: (858) 679-7708 Fax: (858) 391-5616 Web: www.a7eng.com E-mail: sales@a7eng.com

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