Bluetooth

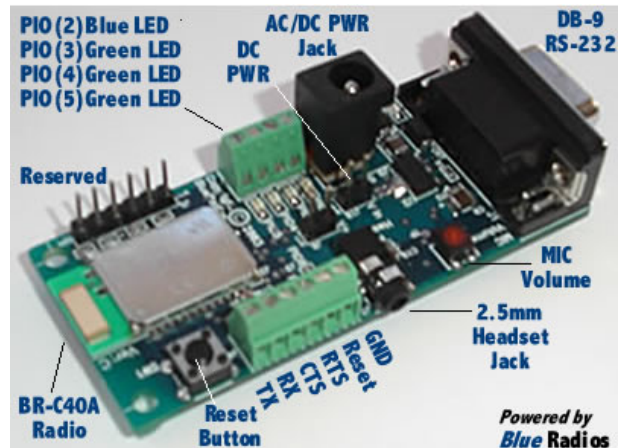*Secure, Versatile and Award Winning Network Radio Devices.*

Bluetooth® Evaluation Board

BR-EC40A Class1, 2, and 3 *Bluetooth®* ver2.0

OUTLINE

- *AT HOME. AT WORK. ON THE ROAD. USING BLUETOOTH WIRELESS TECHNOLOGY MEANS TOTAL FREEDOM FROM THE CONSTRAINTS AND CLUTTER OF WIRES IN YOUR LIFE.*

- **Wireless data and voice communications module certified to *Bluetooth®* ver2.0**

- **Audio CODEC, head jack, head phones, MIC volume control.**

- **FCC, IC, CE, and *Bluetooth®* certified ISM 2.4GHz band module.**

- **RS-232 (DB-9), and 0-3.3Vdc logic levels**

- **Includes integrated software stack, profiles, and AT modem like commands.**

- **Embedded *Bluetooth* Stack Profiles Included *(requires no host MCU stack)*:**
  SPP, DUN, LAN, Headset, HFP, Audio Gateway, FTP Client/Server, OBEX, OPP – Push/Pull, GAP, SDP, RFCOMM, and L2CAP protocols.

- **Evaluation Board Accommodates either; BR-C40A and BR-C46A radio modules**

FEATURES

- **The *BlueRadios* serial radio modems can be configured, commanded, and controlled through simple ASCII strings over the *Bluetooth* RF link or directly through the hardware serial UART.**
- **Dedicated PCM voice audio channel**
- **UART baud rate data speeds: 1200bps up to 921.6Kbps, and customized**
- **+100 meter (330 feet) distance**
- **Software adjustable transmitter power from short to long range applications**
- **Includes AC/DC power supply**
- **13 bit linear mono CODEC**
- **Programmable Input Output (PIO's)**
- **Reset push button**
- **LED status: Power, *Bluetooth* Connection, Slave status, etc.**
- **2.5mm audio jack**
- **Low power consumption *(80mA TX, 40mA RX, 1.4mA idle mode, and 30uA deep sleep)* radio only**
- **RS-232 and 3.3Vdc TTL inputs**
- **Operating temperature range: -40~+70ºC.**
- **Secure and robust communication link**
  - ✓ **FHSS (Frequency Hopping Spread Spectrum)**
  - ✓ **Encryption, and 16 alphanumeric Personal Identification Number (PIN)**
  - ✓ **Error correction schemes for guaranteed packet delivery**

7173 S. Havana Street, Suite 600 • Englewood, CO 80112 • USA • Tel (303) 957-1003
www.*Blue*Radios.com