Bluetooth® USB Evaluation Dongle
BR-USB-C40A 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
- No custom software driver installation required
- FCC, IC, CE, and Bluetooth® certified ISM 2.4GHz band module.
- USB 2.0 system-on-chip controller
- Includes integrated software stack, profiles, and AT modem like commands.
- Embedded Bluetooth Stack Profiles Included (requires no host MCU stack):
- *Audio hardware not supported for the BR-USB-C40A dongle board design
- Included: translucent smoke plastic enclosure, USB cap cover, and external push button.

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.
- UART baud rate data speeds: 1200bps up to 921.6Kbps, and customized. Default is 9600bps
- +250 meter (660 feet) LOS distance
- Software adjustable transmitter power from short to long range applications
- PIO(4) restore factory default settings, connect to paired device, or last connected device, etc.
- Programmable Input Output (PIO’s)
- 0-3.3Vdc logic levels to breakout header
- LED status indicators: USB Power (red), PIO2 Bluetooth Connection (blue), PIO3 (red), PIO4 reset (orange), and PIO5 Slave status (green)
- Low power consumption (80mA TX, 40mA RX, 1.4mA idle mode, and 30uA deep sleep) radio only
- Operating temperature range: -40→+70°C.
- 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

Note: USB Dongles also available for Bluetooth Low Energy, ZigBee PRO, and proprietary modules.