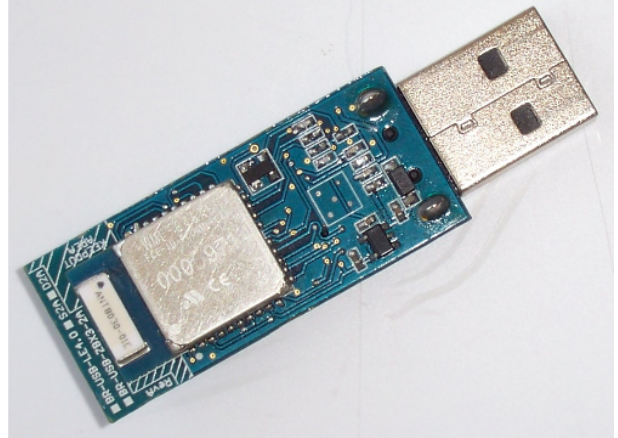


## Bluetooth® USB Evaluation Dongle

**BR-USB-C46AR Class2 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, 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):  
SPP, DUN, LAN, \*Headset, \*HFP, \*eSCO, \*SCO, \*Audio Gateway, FTP Client/Server, OBEX, OPP – Push/Pull, GAP, SDP, RFCOMM, and L2CAP protocols.
- \*Audio hardware not supported for the BR-USB-C46AR 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
- +10 meter (33 feet) 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 (50mA TX, 40mA RX, 1.4mA idle mode, and 30uA deep sleep) radio only
- Operating temperature range: -40~+85°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.