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):

● *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.