

Bluetooth® 4.0 Single Mode Low Energy nano ampere network USB Serial Dongle



nBlue™ BR-USB-LE4.0-S2A

OUTLINE

- **AT HOME. AT WORK. ON THE ROAD. USING BLUETOOTH LOW ENERGY WIRELESS TECHNOLOGY MEANS TOTAL FREEDOM FROM THE CONSTRAINTS AND CLUTTER OF WIRES IN YOUR LIFE.**
- Wireless data communications USB Serial Dongle compliant to *Bluetooth®* ver4.0
- No custom software driver installation required
- USB 2.0 system-on-chip FTDI controller
- Includes integrated software stack, profiles, and AT modem like commands.
- Embedded *Bluetooth* stack protocols and profiles included (*requires no host MCU stack*): GAP, GATT, SMP, ATT, L2CAP, and future HDP.
- Code space for client applications (130kB Flash / 50kB w/parser, 2.5kB RAM)
- Included: translucent smoke ABS plastic enclosure, USB cap cover, and external push button. **46(L) X 20(W) X 11(H)mm (1.8" X 0.8" X 0.4") dimensions of plastic enclosure.**



nBlue BR-LE4.0-S2A module

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: 9600bps up to 460.8Kbps. Default is 115200bps
- +150 meter (500 feet) est. distance (LOS)
- 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**)
- Analog inputs, RTC, battery monitor, and watchdog timer
- Operating temperature range: -40°C to ~+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 2.0*, *ZigBee PRO*, and proprietary modules.