

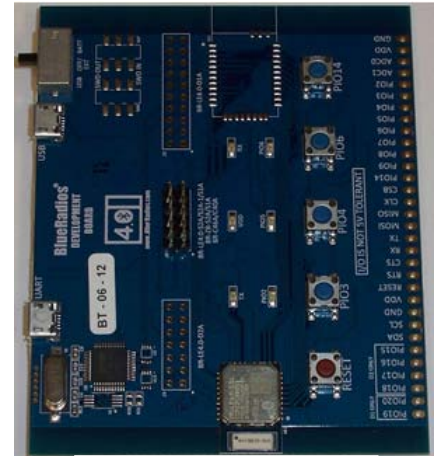
Bluetooth® 4.0 Single Mode Low Energy nano ampere network Development Board

 **nBlue™ BR-DEV-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 development board compliant to **Bluetooth® Smart Low Energy 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 Profiles Included (requires no host MCU stack):**
Embedded **Bluetooth Stack and Profiles Include: GAP, GATT, SMP, ATT, L2CAP, and future HDP.**
- Code space for client applications (130kB Flash / 50kB w/parser, 2.5kB RAM)
- USB, CR2032 coin battery, or external power options
A USB Male-to-Mini B Male 1meter cable *included...*



**Pictured with nBlue
BR-LE4.0-S2A**



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 115.2Kbps
- +150 meter (500 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**), 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 with billions of unique codes
 - ✓ FHSS (Frequency Hopping Spread Spectrum)
 - ✓ Encryption, and 16 alphanumeric Personal Identification Number (PIN)
 - ✓ Error correction schemes for guaranteed packet delivery

Note: Dev Boards also available for **Bluetooth 2.0**, and proprietary modules.