

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

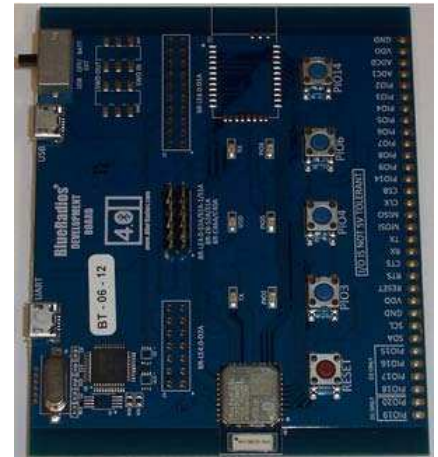


**nBlue™ BR-DEV-LE4.0-S2A**



**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 certified 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 (*requires no host MCU stack*):
- 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
- Embedded **Bluetooth** Stack Protocols and Profiles (Master/Slave) include: GAP, GATT, SMP, ATT, L2CAP, BAS, BLP, BLS, DIS, FMP, ANP, HIDS, HOGP, HID HTP, HTS, HRP, HRS, IOP, IAS, LLS, PASP, PXP, SCPP, SCPS, TIP, TPS.



**nBlue** BR-LE4.0-S2A module

**FEATURES**

- **nBlue** serial radio modems can be configured, commanded, and controlled via simple ASCII strings on generic profiles or using “C” library calls with custom applications embedded onto the unit.
- Purchasers of **nBlue** are qualified to receive IAR Systems 8051 compiler for only \$1K. MSRP is \$3K.
- Free Apple iPhone 4s and Android supported smart phone applications
- Over-the-Air (OTA) firmware programming or over two wire UART interface
- UART handshaking 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
- 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**, Dual Mode, and proprietary modules.