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

RoHS *n*Blue™ BR-MUSB-LE4.0-S2A

Bluetooth® **SMART**

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 certified 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.**

- ● **Code space for client applications (130kB Flash / 50kB w/parser, 2.5kB RAM)**

- ● **Included: translucent blue ABS plastic enclosure.** *30(L) X 18(W) X 10(H)mm (1.2" X 0.71" X 0.40")*

- ● **Embedded *Bluetooth* stack protocols and profiles (Master/Slave) included *(requires no host MCU stack)*: 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, and BRSP.**

*n*Blue BR-LE4.0-S2A module
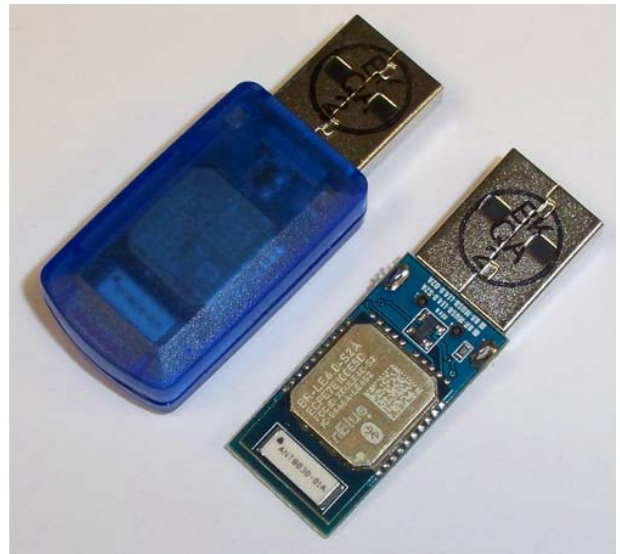
FEATURES

- ● *n*Blue **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 *n*Blue are qualified to receive IAR Systems 8051 compiler for only $1K. MSRP is $3K.**
- ● **UART hand shaking 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**
- ● **Programmable Input Output (PIO's)**
- ● **LED status indicators: USB Power (red), PIO2 *Bluetooth* Connection (blue), and PIO5 Slave status (green)**
- ● **Operating temperature range: -40°C to ~+85ºC**
- ● **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, *Bluetooth* Smarty Ready, and proprietary modules.