

# Bx600 Breakout Boards and BL600 DVK

## BLE Development Options for Any Hardware Budget



### BLUETOOTH DESIGN THAT SCALES TO YOU.

Designing Laird's BL600 into your system has never been easier. Laird now introduces the Bx600 breakout board series, joining alongside the DVK-BL600 development kit. All allow you to connect to and program the BL600 from Windows, OSX, or Linux via UwTerminalX software. The Bx600 breakout boards provide a streamlined approach for simplified BL600 prototyping in as little as a tenth of the cost. They come in three packages: basic breakout board, board with coin cell attachment, and board with coin cell attachment and USB-to-UART adapter. The DVK-BL600 contains a wider variety of hardware components such as interfaces, sensors, LEDs, and power options.

#### THE RIGHT HARDWARE FOR YOUR DESIGN REQUIREMENT



Whether you need a simple prototype option or lots of sensors and interfaces for testing, Laird's development options have you in mind. The Bx600 breakout boards are a cost-effective and direct: The **BB600** has through holes for breadboarding; The **BC600** includes a mounted coin cell power adapter for designing low-power solutions directly on the board; The **BA600** bundles the coin cell adapter with a USB to UART adapter for power flexibility and PC testing with applications like vSP. The **DVK-BL600** offers extensive onboard equipment to help you design for any application.

#### Features at a Glance

**BB600:** Basic breakout board and pin-based power supply. Access to I/O via through-holes. Most cost-efficient access to the full BL600

**BC600:** Breakout board with coin cell holder attached. Allows flexibility of power and mobile deployment for prototyping low-power solutions.

**BA600:** Breakout board with coin cell holder and USB-to-UART adapter. More flexible development with a PC, especially applications like vSP.

**DVK-BL600:** Full development board with array of sensors, LEDs, through-holes, current measurement circuit, power connectors and interfaces.

#### CROSS-PLATFORM SOFTWARE LETS YOU DEVELOP YOUR WAY



Laird's new UwTerminalX software takes UwTerminal to the next level, bringing *smartBASIC* to all desktop environments. UwTerminalX (Windows / Linux / OSX) lets you control the BL600 in command mode and compile, load, and run *smartBASIC* scripts on the device. Companion apps for UwTerminalX include **MultiDeviceLoader**, which lets you deploy a script to as many as ten devices at once, and **TermNotify**, which enables connection alerts and status info from the OS system tray. All of this is hosted on GitHub, so you can modify the project to meet your needs.

#### PERSONAL SUPPORT FROM DESIGN TO MANUFACTURE



Laird's support team is always standing by to provide integration support, analysis, and troubleshooting for all currently supported hardware. Working in the same offices as Laird engineering, Embedded Wireless Support is your personal bridge to all of Laird's software, experience, and expertise. Laird guarantees a fast response and is dedicated to seeing your product through design to manufacturing. And our online support center serves as an archive of many common questions, as well as hundreds of support documents and software files.

#### Use Cases



Prototyping, easily add BL600 to existing design



Developing low-power designs (i.e. Beacons)



Easy PC connection for vSP / serial testing



Full access to module for complete design / test

**EXTENDED FEATURES**



	<b>BA600</b>	<b>BB600</b>	<b>BC600</b>	<b>DVK-BL600</b>
<b>Designed For</b>	Smaller, streamlined access to the module and easy connection into a breadboard or a header on your host device. Convenient for simply adding the BL600 into any design, enabling a faster time to market.			Fully-featured board with sensors and interfaces for a complete development solution. Evaluate the BL600 outside of your host system with a high degree of measurability, testing, and insight.
<b>Module Options</b>	BL600-SA			BL600-SA, BL600-SC, BL600-ST BL620-SA, BL620-SC, BL620-ST (via firmware upgrade)
<b>Antenna Options</b>	Integrated			Integrated (-SA Modules) IPEX MHF4 (-SC Modules) Trace Pin (-ST Modules)
<b>BLE Role</b>	Peripheral only (BL600)			Central (BL620) or Peripheral (BL600)
<b>Power Options</b>	BB600: Power Pin BC600: Coin Cell Adapter BA600: Coin Cell Adapter, USB			DC Jack (4.5 – 5.5 V), 3xAAA batteries, or USB B cable, CR2032 Coin Cell (powers module only)
<b>Additional Hardware</b>	BB600: None BC600: Configuration Jumpers BA600: USB Cable, USB-to-UART Adapter, Jumpers			Temperature sensor, voltage measurement circuit, programmable LED array and push button switches
<b>Connection Interfaces</b>	Access to all I/O via through-hole plates, USB-to-UART adapter (BA600)			UART, JTAG, USB-to-UART Adapter, Access to all I/O via through-hole plates
<b>Warranty</b>	1-Year Warranty			1-Year Warranty

**PART NUMBERS**

BA600-0x	Breakout board with mounted BL600-SA module, coin cell attachment and UART-to-USB adapter
BB600-0x	Breakout board with mounted BL600-SA module
BC600-0x	Breakout board with mounted BL600-SA module and coin cell attachment
DVK-BL600-SA/ST/SC-0x	Development kit for BL600 and BL620 modules <b>Note:</b> Update firmware on DVK-BL600 for BL620 operation.

V.	Date	Description	Approved By:
1.0	23 August 2015	Initial Release	Jonathan Kaye