

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

LETS YOU DEVELOP YOUR WAY

CROSS-PLATFORM SOFTWARE



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.

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.

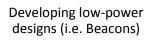
BA600: Breakout board with coin cell holder and USB-to-UART adapter. More flexible development with a PC, especially applications like vSP.

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

Use Cases



Prototyping, easily add BL600 to existing design





Easy PC connection for vSP / serial testing

Full access to module for complete design / test



EXTENDED FEATURES





	BA600	BB600	BC600	DVK-BL600	
Designed For	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.	
Module Options	BL600-SA			BL600-SA, BL600-SC, BL600-ST BL620-SA, BL620-SC, BL620-ST (via firmware upgrade)	
Antenna Options	Integrated			Integrated (-SA Modules) IPEX MHF4 (-SC Modules) Trace Pin (-ST Modules)	
BLE Role	Peripheral only (BL600)		Central (BL620) or Peripheral (BL600)	
Power Options	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)	
Additional Hardware	BB600: None BC600: Configuration Jumpers BA600: USB Cable, USB-to-UART Adapter, Jumpers		Adapter,	Temperature sensor, voltage measurement circuit, programmable LED array and push button switches	
Connection Interfaces	Access to all I/O to-UART adapter	-	plates, USB-	UART, JTAG, USB-to-UART Adapter, Access to all I/O via through-hole plates	
Warranty	5 Year Limited Li	fetime		5 Year Limited Lifetime	

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
	Note: Update firmware on DVK-BL600 for BL620 operation.

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