

New Product Announcement

Laird Connectivity's BL653 Series Modules, Now at Mouser, Support Long-Range BLE Applications in Harsh Environments

June 30, 2020 – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [BL653](#) Series of modules from [Laird Connectivity](#). Featuring a comprehensive range of configurable interfaces as well as an extended [industrial](#) temperature rating, the BL653 provides reliable *Bluetooth*® 5.1 connectivity and support for NFC and 802.15.4 communication (Thread and Zigbee) for a range of [Internet of Things](#) (IoT) applications in industrial settings and other [harsh environments](#).

The [Laird Connectivity BL653](#) Series modules, available from Mouser Electronics, are small modules that deliver Bluetooth 5.1 connectivity, longer range, multi-wireless capabilities, and an extended temperature range up to 105 degrees Celsius. Powered by the compact Nordic [nRF52833](#) system-on-chip (SoC), BL653 modules capitalize on the SoC's 64 MHz Arm® Cortex®-M4 with FPU, high output power of up to +8 dBm, and excellent sensitivity of -95 dBm sensitivity in 1 Mbps.

The modules offer Bluetooth 5.1 features such as direction finding with angle of arrival (AoA) and angle of departure (AoD), as well as long-range (Coded PHY) and 2M PHY support for data rates of 2 Mbits per second (Mbps), 1 Mbps, and 125 Kbps. The 15 mm x 10 mm x 2.2 mm modules also support flexibility in application design, enabling developers to choose between Laird Connectivity's *smartBASIC*, simple AT command set, Nordic SDK, or Zephyr RTOS. The module family includes integrated PCB trace antenna options for overall design simplicity or Trace Pad variants for connecting a range of pre-certified internal and external antenna options.

The BL653 includes modular FCC, IC, CE, RCM, MIC, and Bluetooth SIG approvals, which extend to an OEM's design with no new testing for the fastest route to production. Design engineers can take advantage of the fully featured BL653 development kit, available with either an internal antenna or a range of pre-certified external FlexPIFA antenna, which provides the necessary tools to begin Bluetooth Low Energy development.

To learn more about Laird Connectivity's BL653 Series, visit <https://www.mouser.com/new/laird-connectivity/laird-bl653-module/>.

As an authorized distributor, Mouser Electronics is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 1 million sq. ft. state-of-the-art facilities south of Dallas, Texas. For more information, visit www.mouser.com.

About Laird Connectivity

Laird Connectivity simplifies the enablement of wireless technologies with market-leading wireless modules and antennas, integrated sensor and gateway platforms, and customer-specific wireless solutions. Laird Connectivity's best-in-class support and comprehensive engineering services help reduce risk and improve time-to-market. When you need unmatched wireless performance to connect electronics with security and confidence, Laird Connectivity delivers - no matter what.

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