



Wireless Connectivity Solutions

Connected. No Matter What.

Connected. No matter what.

Laird Connectivity is a long-established industry leader in enabling wireless connectivity. We offer the industry's broadest spectrum of products spanning Wi-Fi, Bluetooth/Bluetooth LE, LoRaWAN, Cellular, custom point-to-point implementations and more. Bring innovative wireless products to market with our certified RF modules that enable secure, reliable wireless connectivity in the harshest RF environments in medical, industrial, and commercial settings.

Sentrius™ IoT Devices



RS1xx

- LoRaWAN + Bluetooth LE temperature and humidity sensor
- LoRaWAN + Bluetooth LE external temperature probe, RTD temperature probe, and Open/Closed sensor
- Fully customizable – hardware, enclosures, labels and more
- End-to-end solutions provide seamless integration

BT510

- Bluetooth 5 Temperature, accelerometer and magnetic reed switch sensor
- Based on Nordic nRF52840
- Multi-year life with single CR2477 coin cell (replaceable)
- IP67 Certified enclosures available

BT610

- Full Bluetooth 5 features including LE Coded PHY (4x Bluetooth range)
- Wide range of sensor input/output options
- IP67-certified enclosure with pressure vent
- Replaceable large-capacity battery
- High-gain internal antenna with IPEX locking connector

RG1xx/RG191+LTE

- Multiple interfaces: LoRaWAN, 802.11a/b/g/n, and Ethernet
- LTE CAT 1 variant available (NA only)
- Full Linux OS – Kernel v4.x running on Atmel A5 Core @ 536 MHz
- IP67 Certified enclosures available
- Seamless integrations with various LoRaWAN network servers

IG60-SERIAL

- Rugged connectivity: 802.11ac Wi-Fi, RS 232/422/485, dual-ethernet
- Hardware root-of-trust based secure image and storage
- AWS IoT Greengrass integration and smartphone companion app
- Over-the-air security updates
- LTE CAT 1 options

IG60-BL654

- Rugged connectivity: Bluetooth 5, 802.11ac Wi-Fi, dual-ethernet, USB & additional cellular
- LTE CAT 1
- Hardware root-of-trust based secure image and storage
- AWS IoT Greengrass integration and smartphone companion app
- Over-the-air security updates

MG1xx Micro-Gateway

- LTE-M/NB-IoT and Bluetooth 5
- End Device Certified
- Rechargeable backup battery option
- Integrated/external antenna options
- Remote Debug via partnership w/ Memfault

STARTER KITS

- **IG60-BL654-LTE and BT510 IoT Starter Kit**
 - Gateway/sensor bundle for IOT prototyping
 - 1x IG60-BL654/IG60-BL654-LTE gateway
 - 3x BT510 sensors

MG100/BT510/BT610 IoT Starter Kit

- 60 days free Software AG Cumulocity IoT
- 1x MG100, 3x BT610, 1x BT510
- Out-of-the-box working w/ Cumulocity IoT

MG100 Micro-Gateway and BT510 IoT Starter Kit

- Gateway and sensor bundle for prototyping IoT applications
- One MG100 Micro-Gateway
- Three BT510 sensors

RG1xx and RS1xx IoT Starter Kit

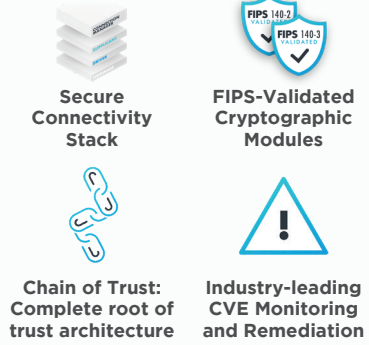
- 1x Sentrius RG1xx LoRaWAN Gateway + Wi-Fi / Ethernet
- AWS IoT Core Qualified Device
- 1x Sentrius RS1xx Sensor (featuring Temp/RH + Open/Closed sensing capabilities)
- Open/Closed cable assembly

SaaS Solutions

lairdconnect.com/iot-software

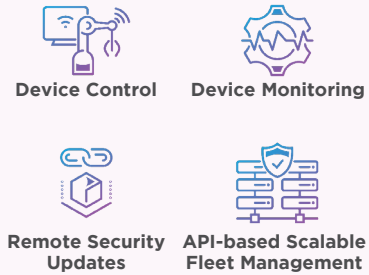
SUMMIT SUITE

Simplify the process of protecting your devices with our industry-leading hardware, multiple layers of security software and enterprise connectivity, all from one partner.



CANVAS™ DEVICE MANAGER

Our device management platform simplifies workflows for configuration and maintenance of IoT devices. Deploy, monitor, update, and more across all your devices in the field.



Wi-Fi™ + Bluetooth®

lairdconnect.com/wifi

Summit SOM 8M Plus

- NXP i.MX 8M Plus
 - 4x MPU cores @ 1.6 GHz
 - 1x CPU core @ 800 MHz
- NXP 88W8997 wireless
 - Wi-Fi 5 + BT 5.3
- Up to 6GB RAM/16GB eMMC
- Onboard machine learning NPU
- GPU w/ HDMI, video encode & decode, 16 GFLOPs 32-bit
- Virtualize up to 4 linux instances
- Smart power management
- Extensive IO & dual-LAN
- Full chain of trust security
- Our most powerful SOM ever

60 Series System on Module (SOM)

- NXP 88W8997 Chipset
- Atmel A5 Processor
- 1Gb RAM/2Gb Flash
- 60 Series wireless
- Dual-Ethernet
- LCD Display support
- Variety of peripheral interfaces
- Laird Connectivity's Chain of Trust Security
- BT 5.1 Certified

60 Series

- NXP 88W8997 chipset
- 802.11ac Wave 2 + Dual Mode, BT 5.1 Certified
- Dual Band Wi-Fi with 2x2 MU-MIMO
- Enterprise level security/ultra-fast Scan & Roam
- Lower power consumption with 28nm process
- USB support



Sterling-LWB+

- Infineon CYW43439 Chipset
- 802.11b/g/n + Dual-Mode Bluetooth 5.2
- Available in 3 variants: SiP, MHF4 or chip antenna
- Industrial temp range
- Linux backports



Sterling-LWB5+

- Infineon CYW4373E chipset
- Dual-Band Wi-Fi® 5 + Bluetooth® 5.2
- Available in 4 variants: SiP, MHF4, chip antenna and pluggable USB
- Industrial temp range
- Linux backports



Sterling-EWB

- Infineon CYW4343W Chipset
- 802.11b/g/n + Dual-Mode Bluetooth 5.1
- Available in 3 variants: SiP, u.FL or chip antenna
- Reference design for embedded applications w/ Infineon WICED and STM MCU
- AT Command Set Available

Bluetooth®

lairdconnect.com/bluetooth

Lyra Series

- Silicon Labs EFR32BG22 SoC
- Bluetooth 5.3 LE
- 32 KB RAM, 512 KB flash
- Choice of PCB or SiP module
- Choice of AT Command Set, SiLabs Wireless Xpress, or full C Code with SiLabs SDK
- Secure Boot, ARM Trustzone, Hardware Cryptographic Acceleration
- Full industrial operating temperature (-40° to +105 °C)
- Full technical and application support, pre-certified antennas



BL654

- Nordic nRF52840 Chipset
- ARM Cortex M4F (1MB Flash, 256k RAM)
- Bluetooth 5.1 (BLE) + NFC and Bluetooth LE Mesh
- Thread 802.15.4 functionality (via nRFConnect SDK/Zephyr RTOS)
- Use nRFConnect SDK/Zephyr RTOS, AT set or smartBASIC

BL652

- Nordic nRF52832 Chipset
- Bluetooth 5 LE + NFC & integrated MCU
- ARM Cortex-M4F (512k/64k) and Bluetooth LE stack
- Advanced security through BT 5 and NFC
- Develop with nRFConnect SDK/Zephyr RTOS or smartBASIC



BL654PA

- Nordic nRF52840 Chipset
- ARM Cortex M4F (1MB Flash, 256k RAM)
- Bluetooth 5.1 Low Energy (BLE) + NFC
- -98.5 dBm to -107 dBm
- Provides + 10dBm more than standard BL654
- Integrated Skyworks PA - Up to +18 dBm output

BL653/BL653μ

- Nordic nRF52833 chipset
- Bluetooth 5.1 AoA/AoD, 802.15.4 & NFC
- As small as 6.3 x 8.6 x 1.6 mm (BL653 Micro)
- Temp Range -40 to 105°C
- Multiple Antenna Options



BL5340

- Nordic nRF5340 chipset
- Dual-Core Cortex M33 MCU
- Bluetooth 5.2, 820.15.4 & NFC
- Temp Range -40 to 105°C
- PCB antenna or RF trace pin
- Bluetooth LE audio DVK developed with Packetcraft

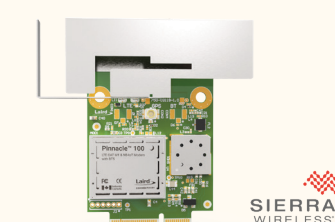


BT850/BT860

- Infineon CYW20704 A2 Chipset
- Bluetooth 5 connectivity
- USB/UART HCI module and packaged adapter
- Low-power/long-range for Classic and Bluetooth LE

Cellular

lairdconnect.com/cellular



Pinnacle™ 100 Modem

- LTE M / NB-IoT radio via Sierra HL7800 (Altair ALT1250)
- MCU/Bluetooth 5 radio via Nordic nRF52840
- BT v5, Coded PHY (Long-range), 2MPHY, Bluetooth LE Mesh
- Integrated & External Antenna Pre-Certified
- Industrial Temp Range
- Remote Debug via partnership with Memfault

Internal Antennas

Laird Connectivity offers a broad portfolio of cost-effective internal antenna solutions that provide unmatched connectivity for your wireless devices. Whether for Wi-Fi/Bluetooth or Multiband/Cellular IoT and M2M applications, the small size and form factor of our antennas make them easily concealable within a product's enclosure, eliminating any negative impact on product aesthetics.

lairdconnect.com/internal-antennas



FlexPIFA/ FlexPIFA 6E

- Industry-first patented, flexible, adhesive-backed PIFA-style Antenna
- Single, dual, and tri-band (2.4, 2.4/5, and 2.4/5/6 GHz) for Wi-Fi 6E support



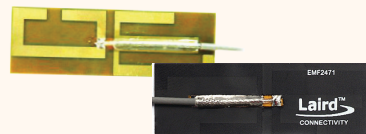
FlexMIMO/ FlexMIMO 6E

- The world's first and only embedded dual-band PIFA MIMO Antenna
- Single, dual, and tri-band (2.4, 2.4/5, and 2.4/5/6 GHz) for Wi-Fi 6E support



mFlexPIFA

- Industry-first patented, flexible, adhesive-backed PIFA-style Antenna optimized for placement on metal



Mini NanoBlade Flex / Flex 6E

- Flexible omnidirectional PCB Mini NanoBlade
- Single, dual, and tri-band (2.4, 2.4/5, and 2.4/5/6 GHz) for Wi-Fi 6E support



Revie Flex Series

- Flexible, peel-and-stick antennas covering cellular IoT applications
- Revie Flex range, 600 to 6000MHz, supports LTE, 5G, 4G, as well as LTE-M / NB-IoT



Nanoblade

- Dual-Band 2.4GHz & 5GHz 0.1mm thick, ideal for wearable and thin devices



Nanoblue

- Patented Microsphere PCB technology with 2.4GHz Wi-Fi or Bluetooth



D-Puck

- Highly durable, cost-effective, small-scale metal antenna

lairdconnect.com/iot-devices

No matter what your wireless design needs are, Laird Connectivity has a solution right for you.

Choose from our wide selection of **off-the-shelf products**.

- Wi-Fi, Bluetooth, LoRaWAN, modules
- Cellular Modems
- IoT Devices – Sensors and Gateways
- Internal Antennas

We can also **tailor our products** to suit your specific design needs.

- Custom Enclosure Color and Label
- Client Specific Software Features
- Antenna Cable Length and Connector Changes
- Kitting & Custom Packaging
- And More!

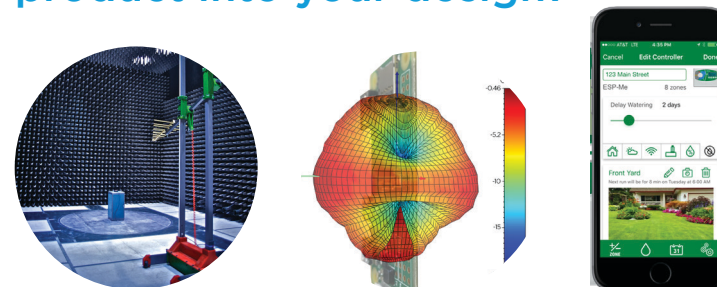
Looking for something more **customized**? We can do that too.

- Custom Housing Design
- Firmware Customization and Development
- Hardware Design Customization
- Cloud Integration
- Balance User Experience and Aesthetics with Electrical and RF Design

Laird Connectivity offers the most **comprehensive services** to help you **reduce risk and get to market faster**.

- Worldwide EMC Testing and Certification
- Mobile Application Development
- Cloud Architecture & Integration
- Antenna Selection/Placement or Custom Design

Looking for additional services to support integrating our product into your design?



Connected. No Matter What.

Laird Connectivity simplifies wireless connectivity with innovative IoT solutions and world class customer support. We offer the industry's broadest spectrum of products spanning Wi-Fi, Bluetooth/Bluetooth LE, LoRaWAN, Cellular, sensor and gateway implementations, and more. Bring innovative wireless designs to market with our IoT devices and certified RF modules that enable secure, reliable wireless connectivity in the harshest RF environments



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