

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



RG1xx



RS1xx











BT510



BT610

End Device Certified

STARTER KITS



MG1xx Micro-Gateway

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

- LE Coded PHY (4x Bluetooth range)
- IP67-certified enclosure
- withpressure vent
- High-gain internal antenna with
- IG60-BL654 Full Bluetooth 5 features including · Rugged connectivity: Wide range of sensor input/output
- Replaceable large-capacity battery AWS IoT Greengrass integration
- IPEX locking connector

RG1xx/RG191+LTE

IG60-SERIAL

LTE CAT 1

• LTE CAT 1

Rugged connectivity:

IG60

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

LoRaWAN network servers

Bluetooth 5, 802.11ac Wi-Fi, RS

232/422/485, dual-ethernet

Hardware root-of-trust based

Over-the-air security updates

AWS IoT Greengrass integration

and smartphone companion app

Bluetooth 5, 802.11ac Wi-Fi, dual-

and smartphone companion app

Hardware root-of-trust based

Over-the-air security updates

secure image and storage

ethernet, USB & additional cellular

secure image and storage

IG60-BL654-LTE and BT510 IoT Starter Kit

Rechargeable backup battery option

Integrated/external antenna options

Remote Debug via partnership w/ Memfault

MG1xx Micro-Gateway

LTE-M/NB-IoT and Bluetooth 5

- 60 days free Software AG Cumulocity IoT 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 Qualified device Internet of Things • 1x Sentrius RS1xx Sensor (featuring Temp/
- RH + Open/Closed sensing capabilities)
- Open/Closed cable assembly

Wi-Fi™ + Bluetooth









60 Series System on Module (SOM)

- NXP 88W8997 Chipset
- Atmel A5 Processor • 1Gb RAM/2Gb Flash

• LCD Display support

Laird Connectivity's

• BT5 Ready

Chain of Trust Security

· Variety of peripheral interfaces

- Wi-Fi 5 + BT 5.3 60 Series wireless • Up to 6GB RAM/16GB eMMC Dual-Ethernet
- Onboard machine learning NPU • GPU w/ HDMI, video encode
- & decode, 16 GFLOPs 32-bit • Virtualize up to 4 linux instances

Summit SOM 8M Plus

- 4x MPU cores @ 1.6 GHz

- 1x CPU core @ 800 MHz

• NXP 88W8997 wireless

• NXP i.MX 8M Plus

- Smart power management
- Extensive IO & dual-LAN Full chain of trust security · Our most powerful SOM ever

Sterling-LWB+

• Infineon CYW43439

• 802.11b/g/n + Dual-Mode

SiP, MHF4 or chip antenna

• Available in 3 variants:

Industrial temp range

Chipset

FlexPIFA/

FlexPIFA 6E

Industry-first patented,

PIFA-style Antenna

for Wi-Fi 6E support

flexible, adhesive-backed

Single, dual, and tri-band

(2.4, 2.4/5, and 2.4/5/6 GHz)

Bluetooth 5.2

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

with 28nm process USB support



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/Broadcom WICED and STM MCU
- AT Command Set Available

• NXP 88W8997 chipset • 802.11ac Wave 2 + Dual

60 Series

- Mode, BT 5.1 Certified Dual Band Wi-Fi with
- 2x2 MU-MIMO
- Enterprise level security/ ultra-fast Scan & Roam Lower power consumption



lairdconnect.com/wifi

Sterling 70 Series

- NXP 88W9098 chipset • Wi-Fi 6 + Bluetooth 5.1
- Dual independent WLAN radios, simultaneous 2.4 and 5 GHz
- 2x2 MU-MIMO
- WPA3 Personal / Enterprise Linux Backports for Linux kernel v4.1 and later
- Industrial temp range



Lyra Series

- Silicon Labs EFR32BG22 SoC Bluetooth 5.3 LE
- 32 KB RAM, 512 KB flash

Bluetooth®

- 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)

Nordic nRF52840 Chipset

• ARM Cortex M4F (1MB Flash,

• Bluetooth 5.1 (BLE) + NFC

• Thread 802.15.4 functionality

(via nRFConnect SDK/Zephyr

Use nRFConnect SDK/Zephyr

RTOS, AT set or smartBASIC

and Bluetooth LE Mesh

BL654

256k RAM)

Laird Connectivity offers a broad portfolio of cost-effective internal antenna solutions that provide unmatched connectivity for your

of our antennas make them easily concealable within a product's enclosure, eliminating any negative impact on product aesthetics.

wireless devices. Whether for Wi-Fi/Bluetooth or Multiband/Cellular IoT and M2M applications, the small size and form factor

• Full technical and application support, pre-certified antennas





- 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 *smart*BASIC



BL653/BL653µ

lairdconnect.com/bluetooth

- 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
- Nordic nRF52840 Multiple Antenna Options
 - 2MPHY. Bluetooth LE Mesh Integrated & External Antenna
 - Industrial Temp Range
- 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

Nordic nRF5340 chipset







- A2 Chipset
- USB/UART HCI module









- for Classic and Bluetooth LE



Cellular

airdconnect.com/cellular

Pinnacle[™] 100 Modem

- LTE M / NB-IoT radio via Sierra HL7800 (Altair ALT1250) MCU/Bluetooth 5 radio via
- BT v5, Coded PHY (Long-range),
- Pre-Certified
- Remote Debug via partnership with Memfault







BL5340

- and packaged adapter • Integrated Skyworks PA - Up
 - Low-power/long-range





- Bluetooth 5 connectivity

lairdconnect.com/internal-antennas





FlexMIMO/ FlexMIMO 6E

 The world's first and only embedded dual-band PIFA MIMO Antenna









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



 Flexible, peel-and-stick antennas covering cellular IoT

















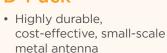
applications Revie Flex range, 600 to 6000MHz, supports LTE, 5G, 4G, as well as LTE-M / NB-IoT



0.1mm thick, ideal for



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









• Single, dual, and tri-band (2.4, 2.4/5, and 2.4/5/6 GHz) for Wi-Fi 6E support



for placement on metal





• Single, dual, and tri-band





BL654PA

256k RAM)

(BLE) + NFC

• Nordic nRF52840 Chipset

• Bluetooth 5.1 Low Energy

• -98.5 dBm to -107 dBm

Provides + 10dBm more

than standard BL654

to +18 dBm output

• Dual-Band 2.4GHz & 5GHz wearable and thin 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

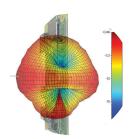






Looking for additional services to support integrating our product into your design?







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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