

IoT Devices

Laird Connectivity's IoT Devices extend our industry-leading wireless expertise to off-the-shelf sensors and gateways. Our solutions help customers quickly, reliably, and securely deploy industrial, medical, or smart building IoT applications. Choose from a variety of battery-powered, wireless, environmental, or probe sensors using LoRaWAN or Bluetooth 5, and keep control of your data from sensor to cloud with our gateways' native integrations to your cloud platform, including AWS, Azure, The Things Network, Activity, and others.

	Bluetooth Gateways		LoRaWAN Gateways
	Sentrius™ IG60-BL654 / IG60-BL654-LTE	MG100 Micro Gateway	Sentrius™ RG1xx Gateway and RG191 + LTE (US only)
Chipset	Microchip SAMA5D36 Cortex, Nordic nRF52840, Marvell 88W8997/88PG823, (LTE version: Gemalto PLS62-W)	Sierra Wireless HL7800, Nordic nRF52840, Cortex-M4F Microcontroller	Semtech Sx1301/1257, CSR8811, QCA6004 (LTE version: Quectel EG91-NA)
Wireless Protocol	Wi-Fi + BT5 (dedicated co-processor) LTE Available (IG60-BL654-LTE)	LTE-M, Bluetooth LE, NFC	LoRaWAN + BT/BLE + Wi-Fi (Optional LTE Cat 1, US only)
Size (mm)	85 x 22 x 100	110.28 x 99.16 x 35.32	133 x 275 x 30
Operating Temperature Range	-30° to +85°C (-22° to +185° F)	-40° to +80°C	-30° to +70°C
Software	Laird Linux, AWS IoT Greengrass, Smartphone app	Open Development Device based on nRF Connect SDK / Zephyr RTOS SDK for custom application development	Onboard configuration and management software
Certifications	FCC, IC, CE, UL/IEC62368	FCC, ISSED, CE, PTCRB, GCF, AT&T	FCC, IC, CE, ASNZS, NCC

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Bluetooth Sensors



LoRaWAN Sensors



	Sentrius™ BT610 I/O Sensor	Sentrius™ BT510 Sensor	Sentrius™ BT7x0 Tracker	Sentrius™ RS1xx Temp Sensor	Sentrius™ RS1xx and External Temp Probe	Sentrius™ RS1xx and RTD Temp Probe	Sentrius™ RS1xx and Open/Close Sensor
Chipset	Nordic nRF52840	Nordic nRF52840	Nordic nRF52833	Semtech Sx1272 Nordic nRF51822	Semtech Sx1272 Nordic nRF51822	Semtech Sx1272 Nordic nRF51822	Semtech Sx1272 Nordic nRF51822
Wireless	Bluetooth 5	Bluetooth 5	Bluetooth 5	LoRaWAN	LoRaWAN	LoRaWAN	LoRaWAN
Sensor Type	Generic I/O + Temp, AC Current, Ultrasonic, Pressure (via ext. assemblies)	Temp, Acceleration, Proximity, Magnetic Reed Switch	Proximity to other BT7x0 with TruePoint Diversity Antenna System (TDAS)	Integrated Temperature & Humidity	Temperature (via external temp probe)	Temperature (via RTD Temp Probe)	Door Open/Closed (via external assembly)
Size (mm)	126.5 x 81.5 x 40	80 x 51 x 19	46 x 62 x 20	116 x 91 x 34	116 x 91 x 34	116 x 91 x 34	116 x 91 x 34
Operating Temperature Range	-40°C to +85°C (ext. probe supports -40°C to +125°C)	-20 to 60°C (w/ alternate battery supports -40 to 85°C)	-10° to +60°C	-25° to +50°C	-25° to +50°C (ext. probe supports -55 to +125°C)	-25° to +50°C (ext. probe supports -40 to +180°C)	-25° to +50°C
Software	Open development for custom applications with Nordic SDK / Zephyr RTOS	Open development for custom applications with board reference for Zephyr RTOS	Smartphone app for config and monitoring	Smartphone app for config and monitoring	Smartphone app for config and monitoring	Smartphone app for config and monitoring	Smartphone app for config and monitoring
Certifications	FCC, IC, CE and RCM, MIC and BT SIG	FCC, IC, CE, MIC, RCM, BT SIG	FCC, ISCED, CE (pending)	FCC, IC, CE, ASNZS, NCC, and BT SIG	FCC, IC, CE, ASNZS, NCC, and BT SIG	FCC, IC, CE, ASNZS, NCC, and BT SIG	FCC, IC, CE, ASNZS, NCC, and BT SIG