

Laird Connectivity

Sentrius™ Line Card



Laird Connectivity's growing Sentrius™ LPWAN family of long-range EIoT solutions leverages Laird's years of RF expertise to enable secure, low-power, long-range EIoT deployment with ease. This array of pre-integrated solutions, which includes the Sentrius™ RG1xx, RM1xx LoRa + BLE modules and LPWAN antennas, gives developers flexibility and freedom to create everything from a single standalone node to a complete end-to-end IoT network that balances throughput and range while using minimal power.



	RM1xx	RG1xx Gateway	RS1xx Temp Sensor
Chipset	Semtech Sx1272 and Nordic nRF51822	Semtech Sx1301/1257 and CSR8811, QCA6004	Semtech Sx1272 and Nordic nRF51822
Wireless Protocol	LoRa + BLE	LoRa + BT/BLE + Wi-Fi	LoRa + BLE
Frequency	902 - 928 MHz (LoRa US) 865 - 870 MHz (LoRa EU) 2.4 GHz (BLE)	902 - 928 MHz (LoRa US) 865 - 870 MHz (LoRa EU) 2.4 GHz (Wi-Fi + BLE)	902 - 928 MHz (LoRa US) 865 - 870 MHz (LoRa EU) 2.4 GHz (BLE)
Range	Up to 15 km (LoRa)	Up to 15 km (LoRa)	Up to 15 km (LoRa)
Size	24.5 mm x 25.4 mm x 3.1 mm	133 mm x 275 mm x 30 mm	125 mm x 97 mm x 26 mm
RF Rate	Up to 50 kbps (LoRa US) Up to 21.9 kbps (LoRa EU)	Up to 50 kbps (LoRa US) Up to 21.9 kbps (LoRa EU) Up to 144 Mbps (Wi-Fi)	Up to 50 kbps (LoRa US) Up to 21.9 kbps (LoRa EU)
Output Power	+15 dBm (LoRa US) +14 dBm (LoRa EU) +3 dBm (Bluetooth)	+15 dBm (LoRa US) +14 dBm (LoRa EU) +3 dBm (Bluetooth) Up to +18 dBm (Wi-Fi)	+15 dBm (LoRa US) +14 dBm (LoRa EU) +3 dBm (Bluetooth)
Receiver Sensitivity	Up to -135 dBm (LoRa)	Up to -135 dBm (LoRa) -72 dBm (Wi-Fi)	Up to -140 dBm (LoRa)
Temperature Range	-40° to +85°C	-30° to +70°C	-40° to +85°C
Software	smartBASIC Application Engine	Onboard configuration and management software	Smartphone app for reporting and monitoring
Certifications	FCC, CE, LoRa Alliance, Bluetooth SIG	FCC, IC, CE (all pending)	FCC, IC, CE, BI (all pending)

To learn more, visit connectivity.lairdtech.com/lorawan
or contact us at CS-Sales@lairdtech.com