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, Actility, and others.

### Gateways

<table>
<thead>
<tr>
<th>Sentrius™ IG60-Serial / IG60-Serial LTE</th>
<th>Sentrius™ IG60-Bl654 / IG60-Bl654-LTE</th>
<th>Sentrius™ RG1xx Gateway and RG191 + LTE (US only)</th>
<th>MG100 Micro Gateway</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chipset</strong></td>
<td>Microchip SAMA5D36 Cortex and Marvell 88W8997/88PG823 (LTE version: Gemalto PLS62-W)</td>
<td>Microchip SAMA5D36 Cortex, Nordic nRF52840, Marvell 88W8997/88PG823, (LTE version: Gemalto PLS62-W)</td>
<td>Sierra Wireless HL7800, Nordic nRF52840, Cortex-M4F Microcontroller</td>
</tr>
<tr>
<td><strong>Wireless Protocol</strong></td>
<td>Wi-Fi + BT5 (LTE coming soon)</td>
<td>Wi-Fi + BT5 (dedicated co-processor) LTE Available (IG60-Bl654-LTE)</td>
<td>LoRaWAN + BT/BLE + Wi-Fi (Optional LTE Cat 1, US only)</td>
</tr>
<tr>
<td><strong>Size (mm)</strong></td>
<td>85 x 22 x 100</td>
<td>85 x 22 x 100</td>
<td>133 x 275 x 30</td>
</tr>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>-30° to +85°C (-22° to +185° F)</td>
<td>-30° to +85°C (-22° to +185° F)</td>
<td>-30° to +70°C</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td>Laird Linux, AWS IoT Greengrass, Smartphone app</td>
<td>Laird Linux, AWS IoT Greengrass, Smartphone app</td>
<td>Onboard configuration and management software</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>FCC, IC, CE, UL/IEC62368</td>
<td>FCC, IC, CE, UL/IEC62368</td>
<td>FCC, IC, CE, ASNZS, NCC</td>
</tr>
</tbody>
</table>

To learn more, visit [lairdconnect.com/iot-platforms](http://lairdconnect.com/iot-platforms) or contact us at [sales@lairdconnect.com](mailto:sales@lairdconnect.com)
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### Sensors

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Chipset</th>
<th>Wireless</th>
<th>Sensor Type</th>
<th>Chipset</th>
<th>Wireless</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Sentrius™ BT610</a> I/O Sensor</td>
<td>Nordic nRF52840</td>
<td>Bluetooth 5</td>
<td><a href="#">Sentrius™ BT7x0 Tracker</a></td>
<td>Semtech Sx1272</td>
<td>LoRaWAN + BLE</td>
<td>FCC, IC, CE and RCM, MIC and BT SIG</td>
</tr>
<tr>
<td><a href="#">Sentrius™ BT510 Sensor</a></td>
<td>Nordic nRF52840</td>
<td>Bluetooth 5</td>
<td><a href="#">Sentrius™ RS1xx Temp Sensor</a></td>
<td>Nordic nRF52833</td>
<td>LoRaWAN + BLE</td>
<td>FCC, ISED, CE (pending)</td>
</tr>
<tr>
<td><a href="#">Sentrius™ BT7x0 Tracker</a></td>
<td>Nordic nRF52833</td>
<td>Bluetooth 5</td>
<td><a href="#">Sentrius™ RS1xx and External Temp Probe</a></td>
<td>Semtech Sx1272</td>
<td>LoRaWAN + BLE</td>
<td>FCC, IC, CE, ASNZS, NCC, and BT SIG</td>
</tr>
<tr>
<td><a href="#">Sentrius™ RS1xx and RTD Smoker Temp Probe</a></td>
<td>Semtech Sx1272</td>
<td>Bluetooth 5</td>
<td><a href="#">Sentrius™ RS1xx and Open/Close Sensor</a></td>
<td>Nordic nRF52822</td>
<td>LoRaWAN + BLE</td>
<td>FCC, IC, CE, ASNZS, NCC, and BT SIG</td>
</tr>
<tr>
<td><a href="#">Sentrius™ RS1xx and Open/Close Sensor</a></td>
<td>Nordic nRF52822</td>
<td>Bluetooth 5</td>
<td><a href="#">Sentrius™ RS1xx and RTD Smoker Temp Probe</a></td>
<td>Nordic nRF52822</td>
<td>LoRaWAN + BLE</td>
<td>FCC, IC, CE, ASNZS, NCC, and BT SIG</td>
</tr>
</tbody>
</table>

**Chipset:**
- Nordic nRF52840
- Nordic nRF52840
- Nordic nRF52833
- Semtech Sx1272
- Semtech Sx1272
- Semtech Sx1272
- Semtech Sx1272
- Semtech Sx1272
- Semtech Sx1272

**Wireless:**
- Bluetooth 5
- Bluetooth 5
- Bluetooth 5
- LoRaWAN + BLE
- LoRaWAN + BLE
- LoRaWAN + BLE
- LoRaWAN + BLE
- LoRaWAN + BLE

**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)
- Temperature
- Temperature (via external temp probe)
- Temperature (via RTD Temp Probe)
- Door Open/Closed

**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. thermistor probe -40°C to +125°C)
- -20 to 60°C
- -20°C to +60°C
- -25°C to +50°C
- -25°C to +50°C
- -25°C to +50°C
- -25°C to +50°C

**Software:**
- 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
- Smartphone app for config and monitoring

**Certifications:**
- FCC, IC, CE and RCM, MIC and BT SIG
- FCC, IC, CE, MIC, RCM, BT SIG
- FCC, ISED, CE (pending)
- FCC, IC, CE, ASNZS, NCC, and BT SIG
- FCC, IC, CE, ASNZS, NCC, and BT SIG
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