Interested in Laird’s Sentrius™ RG1xx Gateways?
Contact us at https://connectivity.lairdtech.com/rg1xx-series
Shared Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chipset</td>
<td>LoRa®</td>
<td>Semtech SX1301/1257</td>
</tr>
<tr>
<td></td>
<td>Bluetooth®</td>
<td>Cambridge Silicon Radio CSR8811 A08</td>
</tr>
<tr>
<td></td>
<td>Wi-Fi</td>
<td>Qualcomm Atheros QCA6004</td>
</tr>
<tr>
<td>Wireless Characteristics</td>
<td>Wi-Fi Spatial Streams</td>
<td>2x2 MIMO</td>
</tr>
<tr>
<td></td>
<td>Wi-Fi Frequencies</td>
<td>2.4 and 5 GHz Operation</td>
</tr>
<tr>
<td>LoRaWAN Regions</td>
<td>EU 863–870 MHz, US 902–928 MHz, AU915–928 MHz and AS923 (TW, HK, NZ, AU)</td>
<td></td>
</tr>
<tr>
<td>Interfaces</td>
<td>Wired</td>
<td>Ethernet - RJ45 Connector</td>
</tr>
<tr>
<td></td>
<td>Wireless</td>
<td>LoRaWAN, Wi-Fi 2.4/5 GHz</td>
</tr>
<tr>
<td>Power</td>
<td>Supply Voltage</td>
<td>12V/1A</td>
</tr>
<tr>
<td></td>
<td>Power Adapter</td>
<td>External DC Power Supply with regional plug adapter</td>
</tr>
<tr>
<td>Security</td>
<td>Wi-Fi</td>
<td>Standards - WEP, WPA, WPA2. Encryption – WEP, TKIP, AES</td>
</tr>
<tr>
<td></td>
<td>EAP Types</td>
<td>EAP - EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAP, PEAP-SCHAPv2, PEAP-TLS, LEAP</td>
</tr>
<tr>
<td>Software</td>
<td>Operating System</td>
<td>Embedded Linux, 4.x Kernel</td>
</tr>
<tr>
<td></td>
<td>LoRa</td>
<td>Packet Network Forwarder with default support for the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>▪ The Things Network with Semtech Basic Station or UDP forwarder</td>
</tr>
<tr>
<td></td>
<td></td>
<td>▪ Stream communications with UDP forwarder</td>
</tr>
<tr>
<td></td>
<td></td>
<td>▪ ChipStack with UDP forwarder or Semtech Basic Station</td>
</tr>
<tr>
<td></td>
<td></td>
<td>▪ Senet through legacy Semtech UDP or proprietary Senet forwarder</td>
</tr>
<tr>
<td></td>
<td>Configuration</td>
<td>Web-based interface via Ethernet/Wi-Fi</td>
</tr>
<tr>
<td>Physical</td>
<td>Dimensions</td>
<td>133 x 275 x 30 mm</td>
</tr>
<tr>
<td>Environmental</td>
<td>Operating Temp.</td>
<td>-30° to +70°C</td>
</tr>
<tr>
<td>Regulatory</td>
<td>Approvals</td>
<td>FCC, IC, CE, ASNZS, NCC</td>
</tr>
<tr>
<td>Accessories</td>
<td>Included</td>
<td>1x 868 MHz, 915 MHz, 923 MHz antennas, External DC Adapter, Ethernet cable</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Standard</td>
<td>Moulded plastic housing</td>
</tr>
<tr>
<td></td>
<td>Option - IP67 Enclosure</td>
<td>Optional IP67-rated external enclosure housing for main gateway PCB</td>
</tr>
<tr>
<td>Warranty</td>
<td>1-Year warranty</td>
<td></td>
</tr>
</tbody>
</table>

For full specifications on RG1xx Gateways, please see the RG1xx User Guide.

Connector Diagram (Standard RG1xx)

Ordering Information

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG191</td>
<td>Sentrius™ RG191 US (US902-928) 915 MHz Gateway - LoRaWAN, Wi-Fi &amp; Ethernet - US Power Adapter</td>
</tr>
<tr>
<td>RG186</td>
<td>Sentrius™ RG186 Europe (EU868) 868 MHz Gateway - LoRaWAN, Wi-Fi &amp; Ethernet - EU Power Adapter</td>
</tr>
<tr>
<td>455-00028</td>
<td>Sentrius™ RG186 United Kingdom (EU868) 868 MHz Gateway - LoRaWAN, Wi-Fi &amp; Ethernet - UK Power Adapter</td>
</tr>
<tr>
<td>450-0191</td>
<td>Sentrius™ RG191 US (US902-928) 915 MHz Gateway – LoRaWAN, Wi-Fi &amp; Ethernet - IP67</td>
</tr>
<tr>
<td>450-0190</td>
<td>Sentrius™ RG186 Europe (EU868) 868 MHz Gateway – LoRaWAN, Wi-Fi &amp; Ethernet - IP67</td>
</tr>
<tr>
<td>455-00054</td>
<td>Sentrius™ RG1xx Taiwan (AS923) 923 MHz Gateway – LoRaWAN, Wi-Fi &amp; Ethernet – TW Power Adapter</td>
</tr>
<tr>
<td>455-00055</td>
<td>Sentrius™ RG1xx New Zealand (AS923) 923 MHz Gateway – LoRaWAN, Wi-Fi &amp; Ethernet – NZ Power Adapter</td>
</tr>
<tr>
<td>455-00056</td>
<td>Sentrius™ RG1xx Hong Kong (AS923) 923 MHz Gateway – LoRaWAN, Wi-Fi &amp; Ethernet – HK Power Adapter</td>
</tr>
<tr>
<td>455-00057</td>
<td>Sentrius™ RG1xx Australia (AU915+AS923) 923 MHz Gateway – LoRaWAN, Wi-Fi &amp; Ethernet – AU Power Adapter</td>
</tr>
<tr>
<td>690-1002</td>
<td>Pole Mount Bracket - Accessory for 450-0190 or 450-0191</td>
</tr>
<tr>
<td>690-1003</td>
<td>Wall Mount Bracket - Accessory for 450-0190 or 450-0191</td>
</tr>
</tbody>
</table>

Note: The region setting of the radio cannot be changed. The user must purchase the appropriate model for the desired region of operation and only use the model appropriate for the location in which they will install the gateway. The only exception to this rule is switching between AU915 and AU923 regions for operation within Australia.