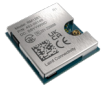
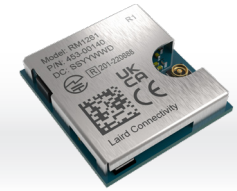
LoRaWAN Modules

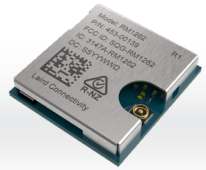
Our growing LoRaWAN ecosystem leverages years of RF expertise to enable secure, low-power, long-range IoT sensor and gateway deployment easily using LoRaWAN technology. The LoRaWAN protocol targets key IoT requirements such as bi-directional communication, end-to-end security, mobility, and localization services. Our portfolio of LoRaWAN solutions delivers high performance with unparalleled design flexibility.

Modules not shown at actual size.



	New: RM126x Series
Chipset	Silicon Labs EFR32 SOC Semtech SX126x radio
Technology	LoRaWAN
Protocol	LoRaWAN A/B/C / LoRa P2P
Physical Interface	SMT
Frequency	RM1262: 902-928 MHz RM1261: 863-870 MHz
Range (Line of Sight)	Up to 15km
Size	14 x 13 x 2.5
RF Rate	LoRa: 125/250/500kHz, FSK 50kbps
Output Power	RM1262 – Up to 22dBm RM1261 – Up to 14dBm
Receiver Sensitivity	-125.6 dBm (SF7, 125kHz, 903.0MHz) -139.2 dBm (SF12, 125kHz, 863.1MHz) -122.7 dBm (SF7, 250kHz, 869.9MHz) -130.8 dBm (SF12, 500kHz, 923.3MHz)
Temp. Range (Operational)	-40° to +85°C
Software	AT Command Set or Simplicity Studio
Certifications	RM1262: FCC, ISED, AS/NZS RM1261: EU, UKCA, NCC, MIC, IN
Interface Buffer	N/A
Supply Voltage	2V-3.6V (Nominal 3.3V)





The Laird Connectivity RM126x series of modules (RM1261 and RM1262) is based on Silicon Labs EFR32 SoC and the Semtech SX126x radio. They provide a low power, long range solution for you to easily develop your LoRaWAN implementation. The RM126x series supports LoRaWAN classes A, B and C, and also includes a LoRa Point to Point (LoRa P2P) capability which enables you to create your own private ultra-long range radio network between two RM126x modules.

- **Hosted Mode** – Connect to external MCU and program with our AT command set.
- **Hostless Mode** – Powerful Cortex-M33 core, 512kB flash and 32K of RAM, program with Silicon Labs' Simplicity Studio and our sample applications.
- **Small Form Factor** – 14mm x 13mm PCB module for compact IoT devices.
- **LoRa P2P** – Create your own proprietary wireless network.
- **Quick to market** - Built in TCXO, DC-DC converter, onboard MHF4 connector.
- **Ultra-Low Power Consumption** - Years of use on a single battery.

Pre-certified sub-GHz antennas available in 868 / 915 MHz options:

868/915 MHz FlexPIFA

Flexible, peel-and-stick adhesive antennas with exceptional performance.

868/915 MHz i-FlexPIFA

Radiates in the direction of the adhesive for mounting to top/front interior of enclosure.

For documentation, schematics, 3D models, and a chance to win an RM126x Series Development board, visit us at:

www.lairdconnect.com/rm126x-series