

# 8-Channel RF Concentrator

## For Low-Power Long Range Networks



**Monitoring and testing low-power long-range networks have never been easier. Unbounded Lab's 8-Channel RF Concentrator, for use in LoRa®-based and LoRaWAN™ networks, allows you to easily bring low-power long-range capabilities to your computer by simply plugging the device into a free USB port on your system.**

Unbounded Lab's 8-Channel RF Concentrator delivers an easy-to-use solution for data communication in a long-range low power wireless network. Each device provides eight simultaneous fixed 125 kHz Bandwidth (BW) LoRa®-based receive channels. In addition, there are two auxiliary channels for LoRa® and FSK modulation.

Beyond its receiver capability, the device offers a single flexible transmit channel. This transmit channel is capable of modulation at multiple bandwidths for a LoRa®-based network or FSK/GFSK.

### GENERAL FEATURES

- Supports RF packets for a LoRa®-based network
- Eight receive and one transmit channel(s)
- Small form factor (L 5.27", W 3.2", H1.27")
- USB (Mini- B) interface
- Environmentally friendly RoHS compliant
- Compliance:
- US Version: certified to FCC modular transmitter standards (915 MHz certification pending for June 2018)
- EU Version: certified to R&TTE RF standards (868 MHz certification pending for Q2, 2018)
- Firmware upgradeable
- Aluminum chassis
- 5V power adapter, 1/2 wave antenna, and USB cable included



Compatible with



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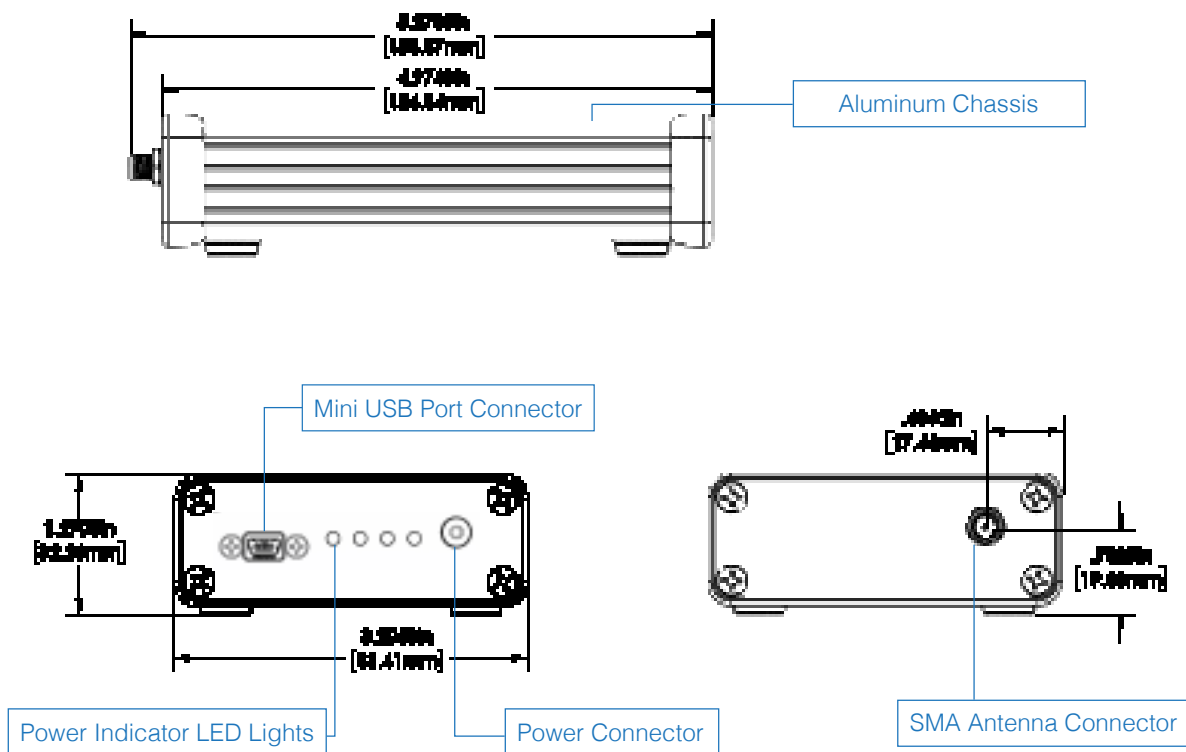
### OPERATIONAL

- Single operating voltage: 5V
- Available for industrial (SX1301) and commercial (SX1308) temperature ranges
- Supports LoRa®-based and FSK (EU only) modulations
- Integrated frequency matched RF front end, RF transceiver,

### APPLICATIONS

Gateways for LoRa®-based networks have been deployed in many market segments, including:

- Agriculture
- Home and Building Automation
- Wireless Alarm and Security Systems
- Industrial Monitoring and Control
- Machine to Machine (M2M)
- Internet of Things (IoT)



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