



# Semtech SX1308

## Digital Baseband Chip for Long Range ISM Communication

The SX1308 digital baseband chip is a massive digital signal processing engine specifically designed to offer breakthrough gateway capabilities in the ISM bands worldwide. It integrates the LoRa concentrator IP.

### Features

- Up to -139 dBm sensitivity with SX1257 or SX1255 Tx/Rx front-end
- 70 dB CW interferer rejection at 1 MHz offset
- Able to operate with negative SNR
  - CCR up to 9 dB
- Emulates 49x LoRa demodulators and 1x (G)FSK demodulator
- Dual digital Tx & Rx radio front-end interfaces
- 10 programmable parallel demodulation paths
- Dynamic data-rate adaptation (ADR)
- True antenna diversity or simultaneous dual-band operation

### Applications

- Smart Metering
- Security Sensors Network
- Agricultural Monitoring
- Internet of Things (IoT)

### Packaging

- Tape & Reel - 3,000 parts per reel

### Order Codes

SX1308IMLTRT