



SX1280ZXXXXGW1

LoRa® Reference Design for 2.4GHz Gateway Based on SX1280

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OVERVIEW

The reference design for the gateway, leveraging 2.4GHz LoRa with SX1280, provides a complete, turnkey gateway solution that is interoperable worldwide with our LoRa Basics™ Modem for 2.4GHz. The gateway reference design is based on multiple SX1280 transceivers allowing simultaneous reception over three LoRa modulated channels operating on a single, programmable spreading factor.

FEATURES

The reference design consists of :

- Four SX1280 RF transceivers (three dedicated to RX and one dedicated to TX roles)
- A complete RF front-end module with T/R switch, LNA and filters enabling high sensitivity half-duplex mode operation
- Simultaneously receive three LoRa channels in the 2.4GHz ISM Band with single-data rates programmable (SF7 ~ SF12 / 812.5kHz)
- Maximum transmit output power = +12dBm
- Typical sensitivity level at 1% PER
 - 116dBm at SF7 BW 812.5kHz
 - 129dBm at SF12 BW 812.5kHz
- Ability to work in hostile RF environments such as close to Cellular mobile phones, WiFi routers, Bluetooth devices
- Simple to use USB interface

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SX1280Z3DSFGW1 for SX1280 Gateway Development Kit

PB FREE/ROHS

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PART NUMBER SX1280Z3DSFGW1

QTY	UNIT PRICE (USD)	PRICE
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1	\$252.99000	\$252.99
10	\$252.41200	\$2524.12
0	\$0.00	\$ 0.00

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INVENTORY

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VIDEO

Safeguarding Forests: How Dryad's Silvanet...



LoRa Basics™ Modem Training

Part 2 — Getting Up and Running With Modem-E

Tim Cooper
Principal Application Engineer (RF)

VIDEO

Part 2: Getting up and running with LoRa...



LoRa Basics™ Modem Training

Part 1 — What is LoRa Basics Modem-E?

Tim Cooper
Principal Application Engineer (RF)

VIDEO

Part 1: Introduction to LoRa Basics™ Modem-E

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Semtech is here to help. When you have questions, our experts have answers.



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