

# SX1276

## SX1276 LoRa Core™ Mbed™ Enabled Shields

### Product Overview

12-31-2021

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

### Description

The Semtech SX1276 LoRa Core™ Mbed™ enabled shields to combine the Semtech SX1276 Low Power Long Range Transceiver with the ARM Mbed Internet of things (IoT) device platform. The developers get the source code from these tools to enable RF tests, simple point-to-point communication, and device compatibility. These Mbed shields plug into Mbed microcontroller development platforms from STMicroelectronics, NXP, and others. The SX1276MB1LAS functions on a frequency band of 433MHz or 915MHz to operate in North America. The SX1276MB1MAS performs on a frequency band of 433MHz or 868MHz to operate in Europe and China. The shields can use the same software and hardware as connections are identical on each board.



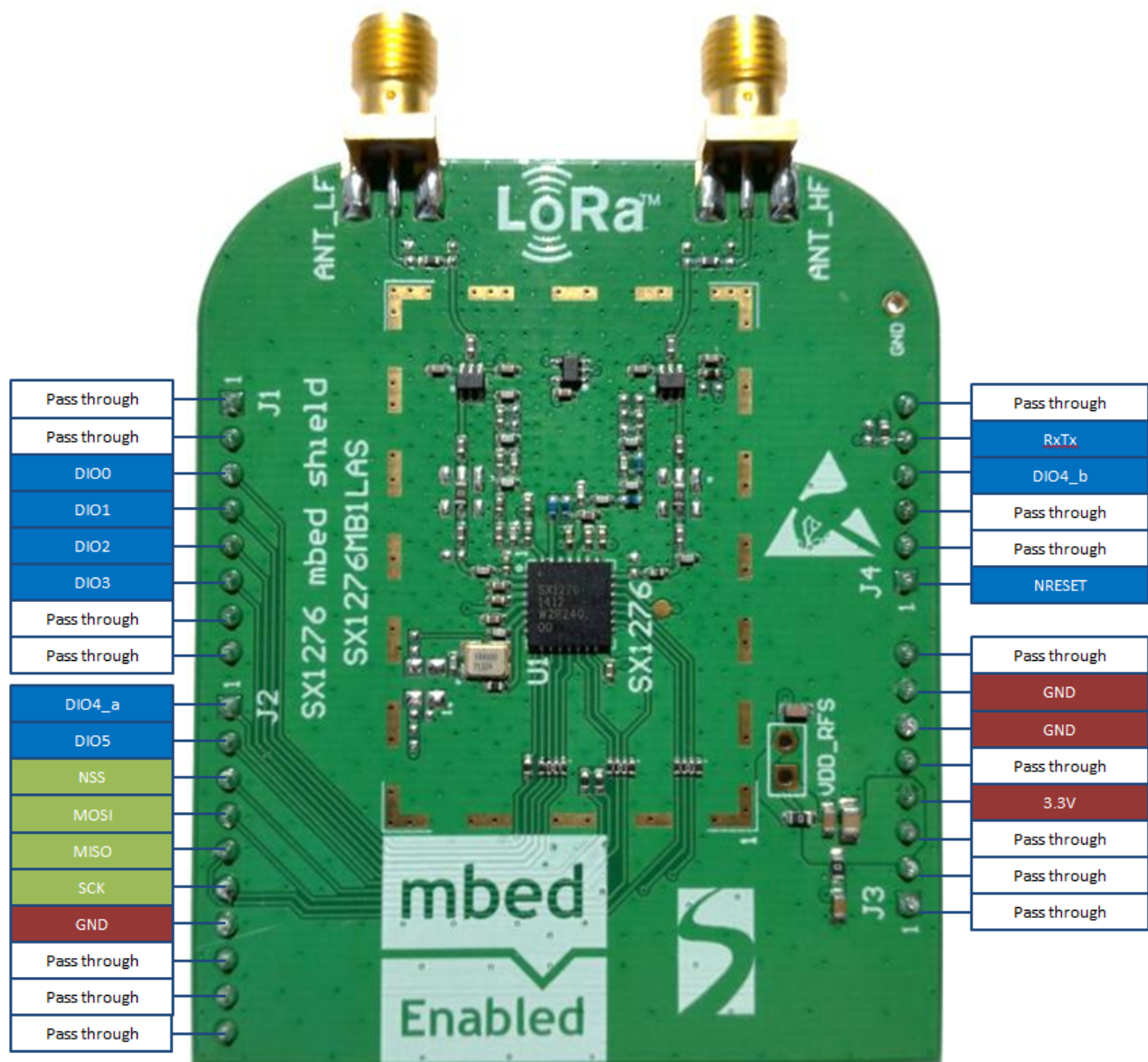
### Features

- Based on Semtech SX1276 LoRa transceiver
- Works with various Mbed microcontroller development platform
- 1.8V to 3.7V operating supply voltage range
- 10Mbps SPI bus controlled
- 65mm x 53.3mm length
- 4 PCB layers
- XTAL 32MHz ref clock
- pin-to-pin compatibility
- **Frequency options:**
  - 433MHz/915MHz (SX1276MB1LAS) and Tx out power (LF/HF) is 14 dBm or 20 dBm
  - 433MHz/868MHz (SX1276MB1MAS) and Tx out power (LF/HF) is 14 dBm or 14 dBm

## Applications

- Wireless home and building automation
- Automated meter reading
- Wireless alarm and security systems
- Industrial monitoring and control
- Long-range irrigation system

## Overview



## Associated Product

### Semtech SX1276

The SX1276/77/78/79 LoRa Core™ is designed on a frequency band of 137MHz to 1020MHz Long Range Low Power Transceiver. It features the LoRa long-range modem, that provides ultra-long range spread spectrum communication and high interference immunity while minimizing current consumption.



## Mouser Part Numbers

[View all Parts](#)

To learn more, visit <https://www.mouser.com/new/semtech/semtech-sx1276-mbed-shields/>