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INDUSTRIAL PRODUCT DATASHEET

Wio-SX1262-1W Wireless Module (Tape Reel) | Semtech SX1262 | LoRa | Sub-GHz | 30 dBm Output Power

High-power LoRa module with 1W transmit power for robust sub-GHz links in remote agriculture, smart metering, and off-grid telemetry.

SKU	UPDATED	PRICE
100013283	2026-11-11 09:24:37	$9.90(Excl. VAT)



Overview



The Wio-SX1262-1W Wireless Module provides 1W transmit power, long-range sensitivity, a compact form factor, flexible antenna options, and stable high-power operation for sub-GHz LoRa connectivity. It is designed for remote agriculture and irrigation control, smart metering in basements, pits and utility cabinets, and emergency or off-grid telemetry where stronger RF margin is needed.

Key Features

01 **1W Transmit Power for Challenging Links**

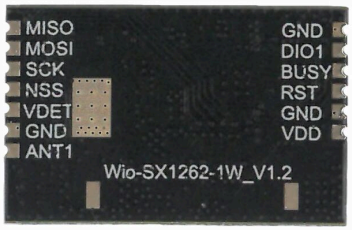
02 **Long-Range Sensitivity, Not Just Loud Transmission**

03 **Compact Enough for Real Products**

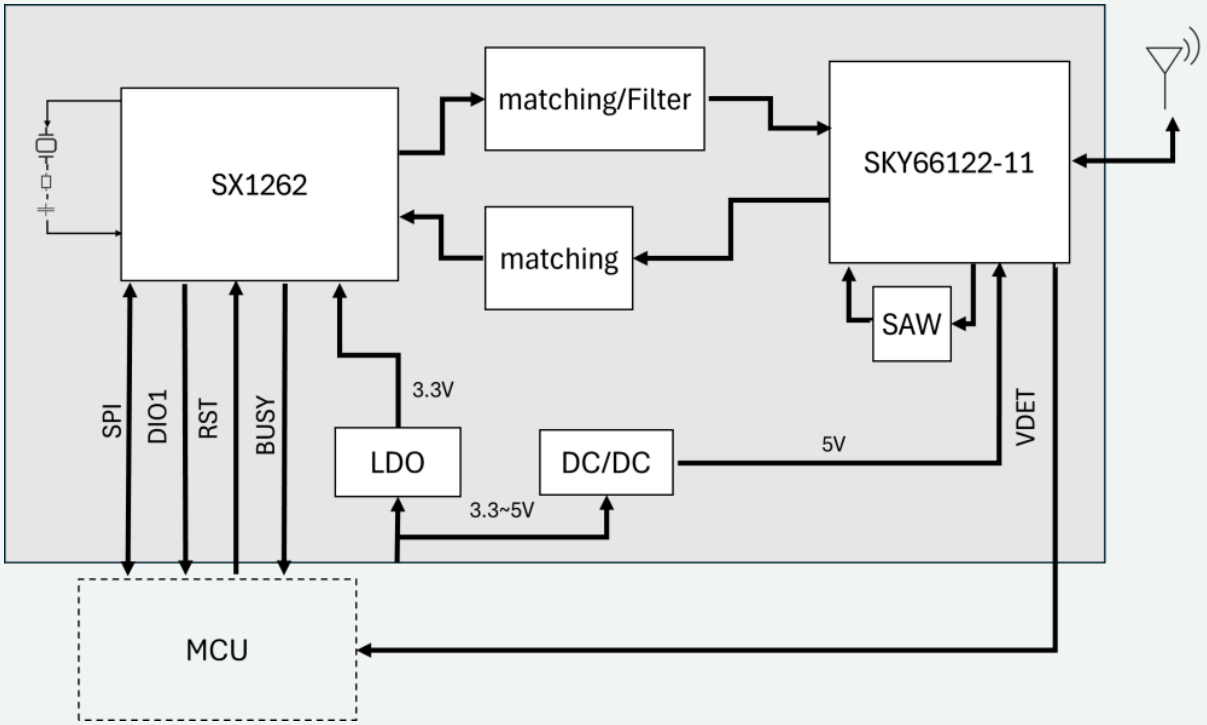
04 **Flexible Antenna Options**

05 **Designed for Stable High-Power Operation**

Product Gallery



Hardware Overview





Applications

- **Remote Agriculture & Irrigation Control:** Large farms, orchards, vineyards and irrigation districts often place sensors across open fields, hills, canals and pump stations. A regular +22dBm SX1262 node may work near the gateway, but edge-of-field soil probes, valve controllers and weather stations can fall into coverage gaps. The 1W uplink helps these nodes close the link without adding as many relays or gateways, especially where soil moisture, crop canopy and long cable-free distances weaken the signal.
- **Smart Metering in Basements, Pits and Utility Cabinets:** Water, gas and energy meters are rarely installed in RF-friendly locations. They sit in concrete pits, metal cabinets, underground chambers and building basements. In these scenarios, the problem is not only distance but also penetration loss. A high-power SX1262 module gives meters a better chance of being heard on the first transmission, reducing retries and improving read success rates compared with standard-power LoRa nodes.
- **Emergency and Off-Grid Telemetry:** Private networks for campuses, utilities, disaster response, temporary sites and off-grid infrastructure often need dependable coverage before the network is fully optimized. Wio-SX1262-1W can be used in high-power nodes, relays or gateway-side designs where stronger RF margin helps establish service quickly. For emergency or backup telemetry, the extra link budget can be the difference between an alarm arriving late and arriving at all.

Resource Links

- https://www.seeedstudio.com/Wio-SX1262-1W-p-7007.html
- Wio-SX1262-1W Module Datasheet
- Semtech SX1262 Datasheet
- Wio-SX1262-1W Module 3D Model
- Wio-SX1262-1W Module KiCad Library
- Wio-SX1262-1W Module AD Library

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com