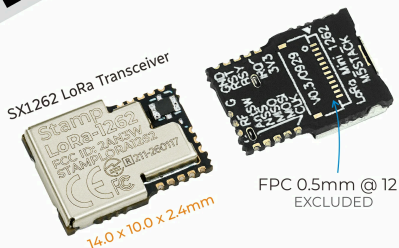


Stamp LoRa-1262

SKU:S014/S014-IF/S014-I

Stamp
LoRa-1262

M5STACK



SX1262 LoRa Transceiver

FPC 0.5mm @ 12P EXCLUDED

14.0 x 10.0 x 2.4mm

868 ~ 923 MHz
LoRa TX: +22dBm
LoRa RX: -147dBm
LoRa / FSK / GFSK / MSK / GMSK / OOK

SPI
INTERFACE

Stamp
LoRa-1262 I

M5STACK



IPEX-4 Pre-soldered

868 MHz ANTENNA

RP-SMA to IPEX-4

FPC 0.5mm @ 12P EXCLUDED

SX1262 LoRa Transceiver

14.0 x 10.0 x 2.4mm

868 ~ 923 MHz
LoRa TX: +22dBm
LoRa RX: -147dBm
LoRa / FSK / GFSK / MSK / GMSK / OOK

SPI
INTERFACE

Stamp
LoRa-1262 IF

M5STACK



IPEX-4 Pre-soldered

868 MHz ANTENNA

RP-SMA to IPEX-4

FPC 0.5mm @ 12P Pre-soldered

SX1262 LoRa Transceiver

14.0 x 10.0 x 3.6mm

868 ~ 923 MHz
LoRa TX: +22dBm
LoRa RX: -147dBm
LoRa / FSK / GFSK / MSK / GMSK / OOK

SPI
INTERFACE





Description

Stamp LoRa-1262 is an ultra-compact embedded **LoRa communication module** with a built-in SX1262 high-performance LoRa transceiver, operating over the 868 ~ 923 MHz frequency band. The module is mini in size yet powerful in performance, with stable and reliable RF characteristics. Its maximum transmit power reaches +22 dBm, and its receive sensitivity is as low as -147 dBm, balancing long-distance communication with system reliability. The product is available in multiple variants, allowing users to choose different combinations of a pre-mounted IPEX-4 antenna connector and a 0.5mm@12P FPC connector (for breaking out the module's communication IO) according to application requirements, making it easy to integrate into hardware designs of different sizes and structures. It is suitable for applications such as **smart city construction, agriculture and environmental monitoring, and outdoor communication**.

Features

- Integrated LoRa transceiver SX1262
- Operating frequency 868 ~ 923 MHz
- Supports LoRa / FSK / GFSK / MSK / GMSK / OOK modulation modes
- Receive sensitivity: as low as -147 dBm (in LoRa low-rate mode)
- Maximum transmit power: +22 dBm

Includes

Stamp LoRa-1262 (SKU:S014)

- 1 x Stamp LoRa-1262

Stamp LoRa-1262 I (SKU:S014-I)

- 1 x Stamp LoRa-1262 I
- 1 x 868 MHz RP-SMA Rubber Duck Antenna
- 1 x RP-SMA to IPEX-4 Antenna Extension Cable (40mm)
- 1 x Antenna Connector Washer (1.0mm Thickness)
- 1 x Antenna Connector Tooth Washer (0.5mm Thickness)
- 1 x Antenna Connector Brass Nut

Stamp LoRa-1262 IF (SKU:S014-IF)

- 1 x Stamp LoRa-1262 IF
- 1 x 868 MHz RP-SMA Rubber Duck Antenna
- 1 x RP-SMA to IPEX-4 Antenna Extension Cable (40mm)
- 1 x Antenna Connector Washer (1.0mm Thickness)
- 1 x Antenna Connector Tooth Washer (0.5mm Thickness)
- 1 x Antenna Connector Brass Nut

Applications

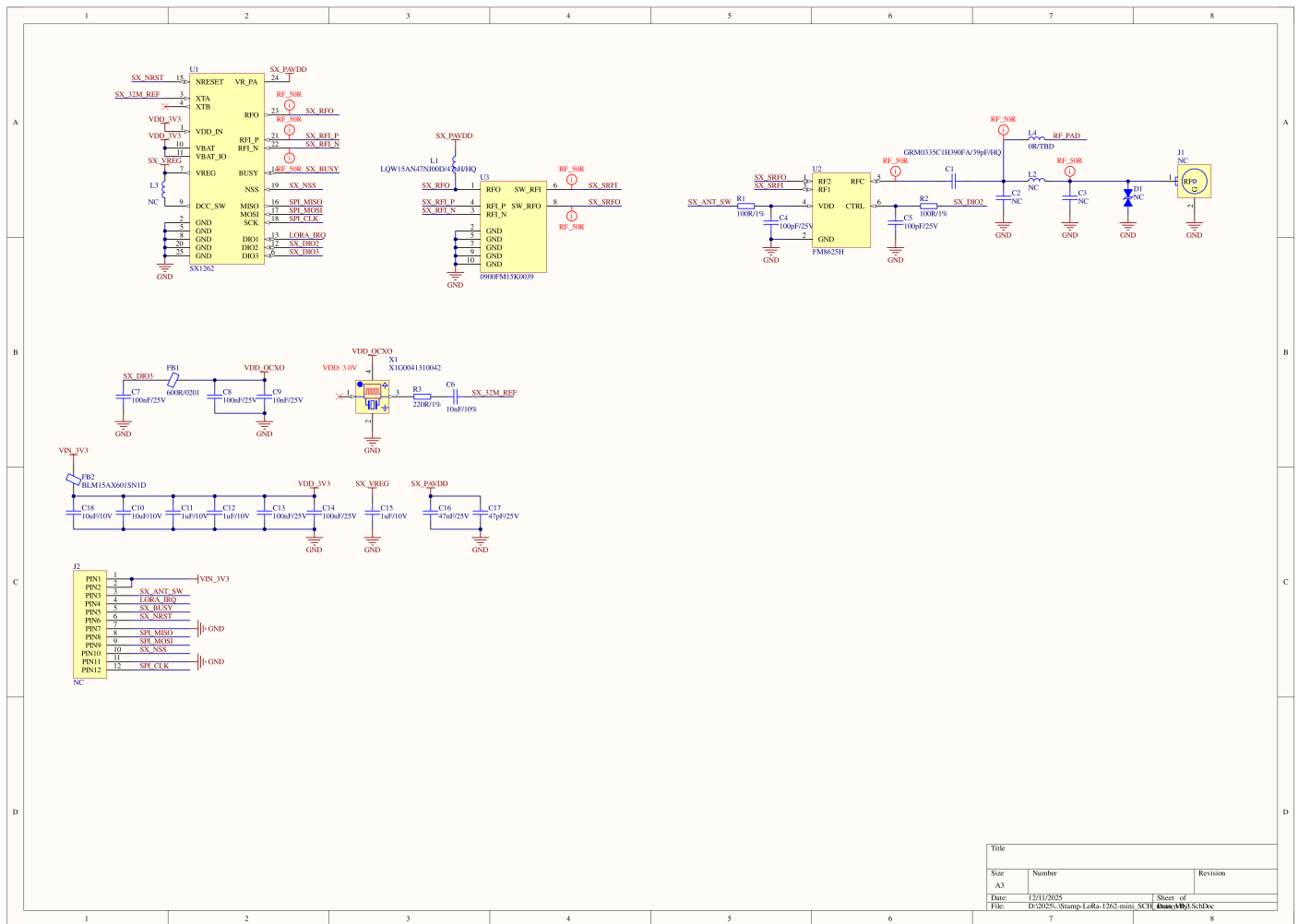
- Smart City Construction
- Agriculture and Environmental Monitoring
- Outdoor Communication

Specifications

Specification	Parameter
LoRa Module	SX1262
LoRa Frequency Band	868 ~ 923 MHz
LoRa Programmable Bitrate	Up to 300kbps
LoRa Communication Interface	SPI
Supported Modulation Modes	LoRa / FSK / GFSK / MSK / GMSK / OOK
LoRa Transmit Power	+22dBm
LoRa Receive Sensitivity	-147dBm (LoRa Low-Rate Mode)
Antenna Specification	Length 108mm, Connector Type RP-SMA (Inner Thread, Inner Hole), Frequency Band 868 MHz, Gain 3dBi
IPEX Antenna Connector Specification	IPEX-4
FPC Connector Specification	0.5mm @ 12P
Power Consumption	3.3V@3.03mA
Product Size	Stamp LoRa-1262 / Stamp LoRa-1262 I: 14.0 x 10.0 x 2.4mm Stamp LoRa-1262 IF: 14.0 x 10.0 x 3.6mm
Product Weight	Stamp LoRa-1262 / Stamp LoRa-1262 I: 0.7g Stamp LoRa-1262 IF: 0.8g
Package Size	138.0 x 93.0 x 11.0mm
Gross Weight	Stamp LoRa-1262: 3.7g Stamp LoRa-1262 I: 13.1g Stamp LoRa-1262 IF: 13.2g

Schematics

- Stamp LoRa-1262 Schematics PDF



PinMap

Module Antenna

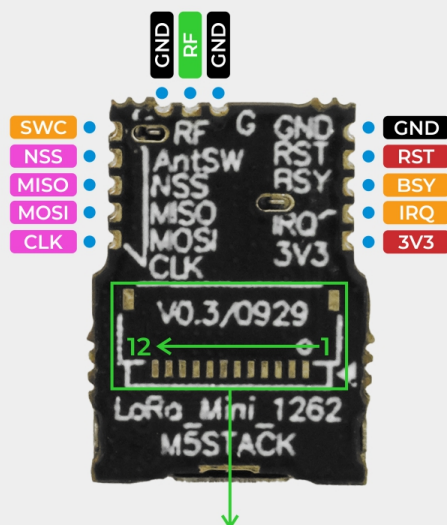
The antenna connection differs among module variants: the antenna trace of **Stamp LoRa-1262** is connected to the onboard **RF pad** by default; the antenna traces of **Stamp LoRa-1262 I** and **Stamp LoRa-1262 IF** are connected to the **IPEX-4** antenna connector, and their onboard RF pad is in **NC** (no connection) state.



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STAMP

LoRa-1262



CLK	GND	NSS	MOSI	MISO	GND	RST	BSY	IRQ	SWC	3V3	3V3
12	11									2	1

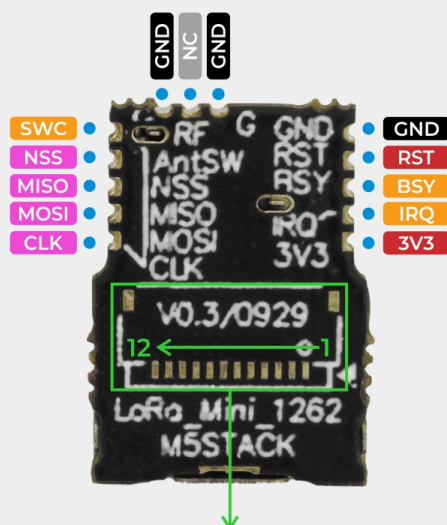
SPI	GND	POWER	GPIO	RF							



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STAMP

LoRa-1262 I

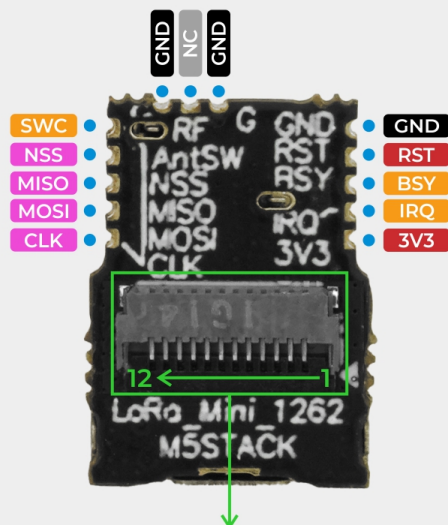


CLK	GND	NSS	MOSI	MISO	GND	RST	BSY	IRQ	SWC	3V3	3V3
12	11									2	1

SPI	GND	POWER	GPIO								

STAMP

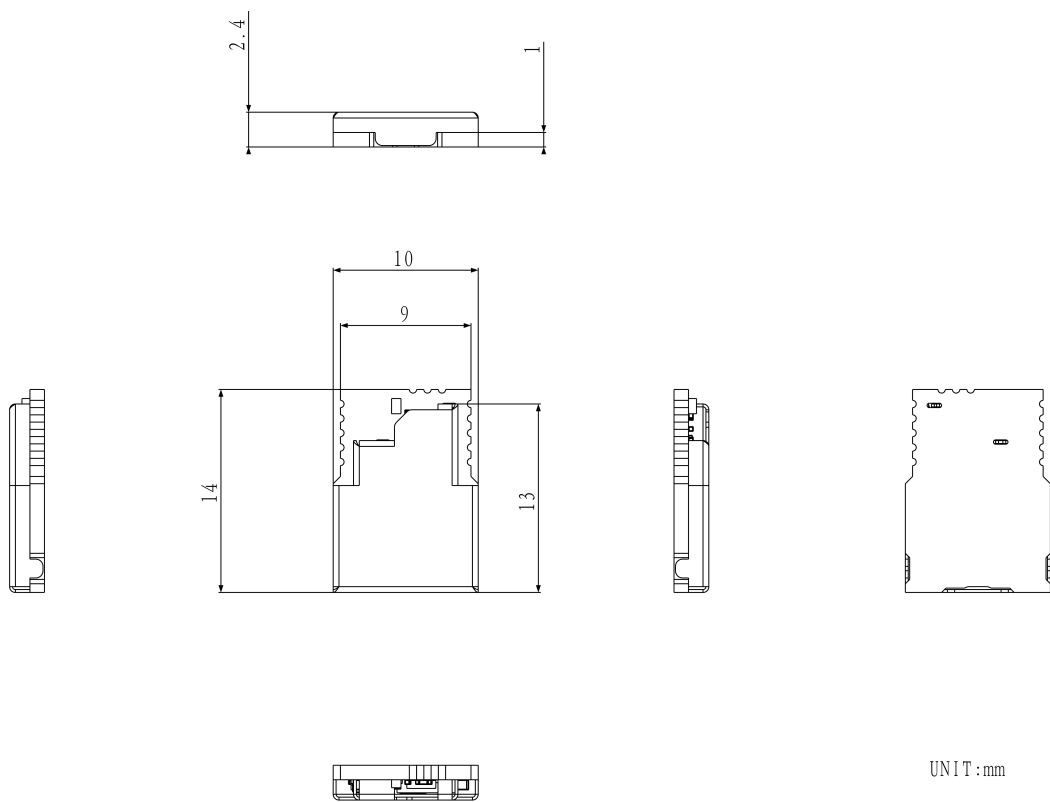
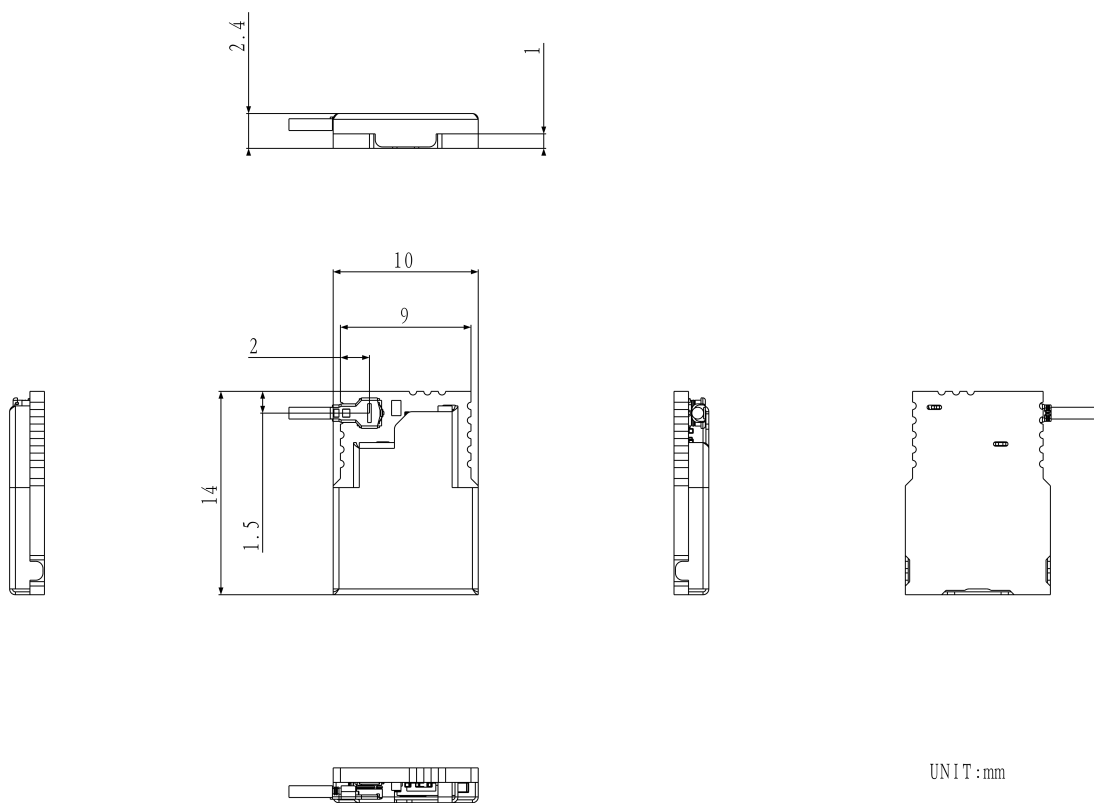
LoRa-1262 IF

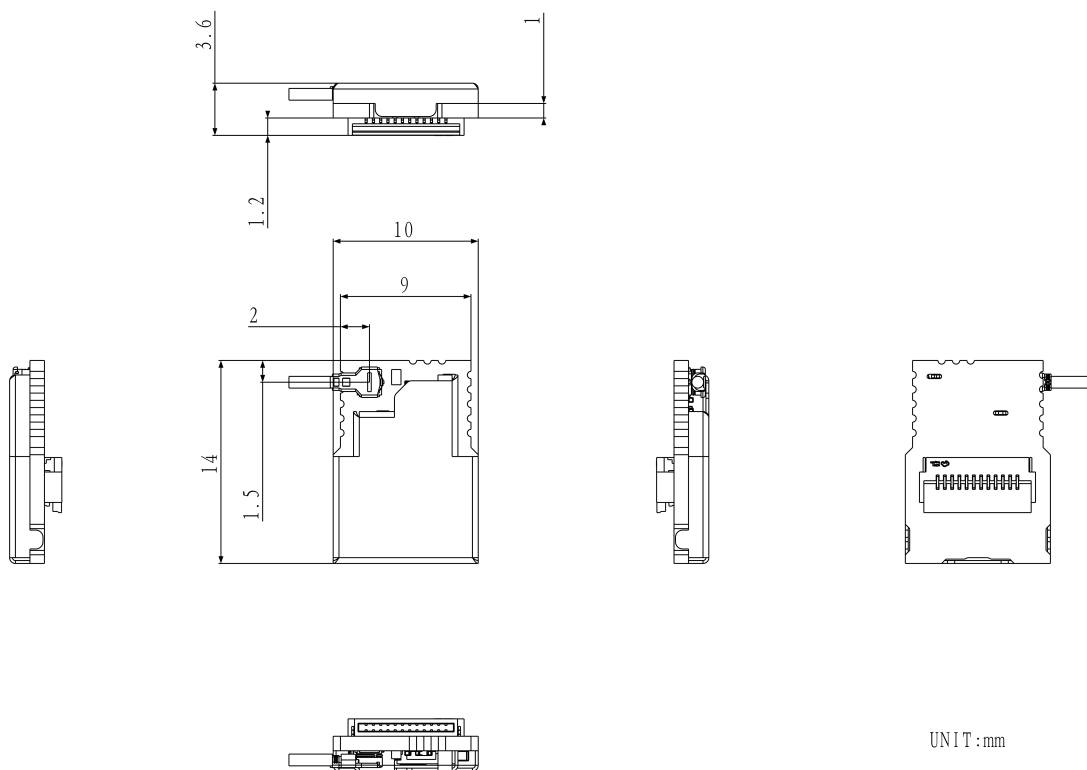


Pin	Description
CLK	SPI clock
NSS	SPI chip select
MOSI	SPI data input
MISO	SPI data output
BSY	Module busy status; high indicates busy. Wait for it to go low before sending commands.
IRQ	Interrupt notification for events such as packet reception and transmission completion.
SWC	RF switch enable (active high)

Model Size

- [Stamp LoRa-1262 Model Size PDF](#)
- [Stamp LoRa-1262 I Model Size PDF](#)
- [Stamp LoRa-1262 IF Model Size PDF](#)





Softwares

Arduino

- [Stamp LoRa-1262 Arduino Quick Start](#)
- [Stamp LoRa-1262 Arduino LoRa Driver Library](#)

Video

Product Comparison

SKU	Product Name	IPEX-4 Antenna Connector	0.5mm@12P FPC Connector
S014	Stamp LoRa-1262	✗	✗
S014-I	Stamp LoRa-1262 I	✓	✗
S014-IF	Stamp LoRa-1262 IF	✓	✓