

N428AS SX1262 PA Module, +37dBm



N428AS Module introduction

N428AS radio module based TI SX1262 transceiver, PA, LNA and TCXO crystal.

N428AS SX1262 transceiver module designed for 169M, 433M, 868M and 915 Mhz LoRa band.

N428AS has +37 dBm output power and the sensitivity down to -126 dBm, WMBUS and Arduinio support.

N428AS module has SMD and plug-

in installation mode. The module use narrowband FSK modulation. N428AS FSK module occupyes very little band width.

N428AS hardware is designed for maximum range 20000 m + Range (Line of Sight).

N428AS Module Parameters

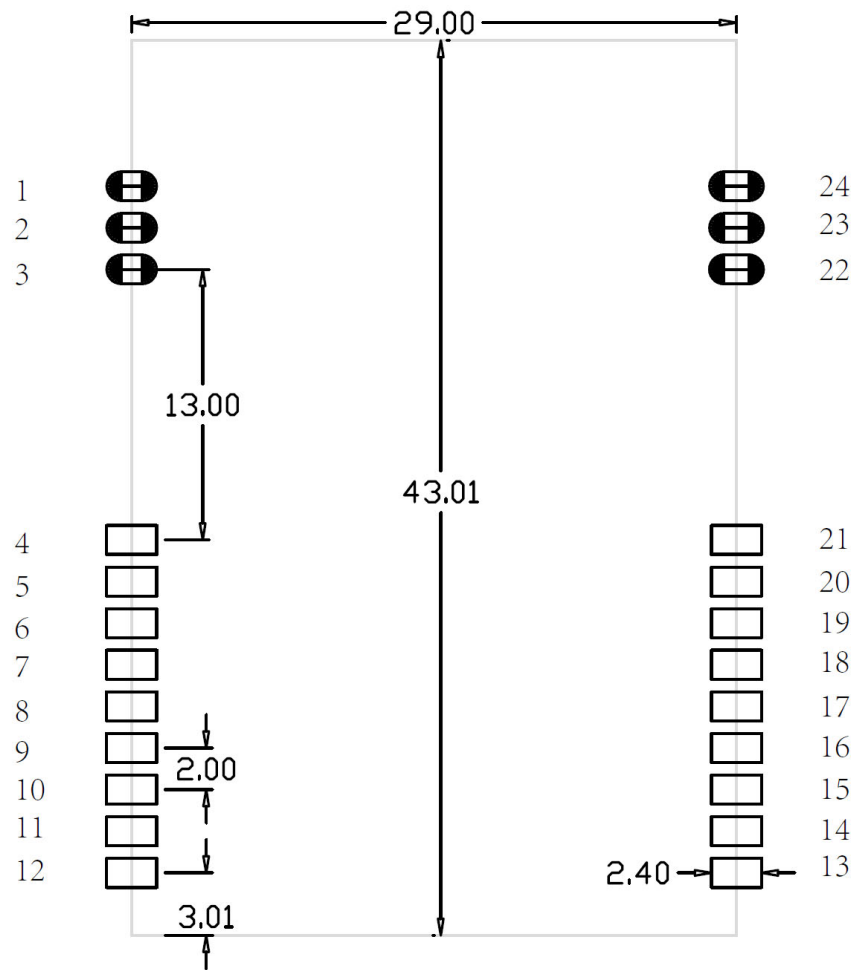
Module	Introduce
Interface	SPI
Frequency	169M, 433M, 868M and 915Mhz

RF Data Rate	0 - 500 kbps
TX Power	+37dBm
RX Sensitivity	-126 dBm
TX Current	2000 mA
RX Current	15 mA
Frequency Deviation	+/- 1 Khz
Communication Distance	10 - 10000 m (Visual distance)
Antenna Interface	RF pin, SMA
Installation Mode	SMD, plug-in
Volume (mm)	43 mm x 29 mm x 3 mm
Operating Voltage	2 - 3.6 V
PA Operating Voltage	4.5 – 5.5 V, type 5V
Working Temperature and Humidity Environment	Temperature: -40 - 80°C; Humidity 10 - 95 %RH
Storage Temperature and Humidity Environment	Temperature: -40 - 80°C; Humidity 10 - 95 %RH
Weight (kg)	≈10g

N428AS pinout Description

	Pin name	Description		Pin name	Description
1	GND	Ground	13	RESET	RESET
2	GND	Ground	14	BUSY	MCU I/O
3	GND	Ground	15	DIO1	MCU I/O
4	VCCPA	5v	16	DIO2	MCU I/O
5	VCCPA	5v	17	MOSI	SPI
6	GND	Ground	18	SCK	SPI
7	GND	Ground	19	MISO	SPI
8	RXEN	MCU I/O	20	DIO3/TCXO	MCU I/O
9	TXEN	MCU I/O	21	CS	SPI
10	LNAEN	MCU I/O	22	GND	RF PIN
11	VCC	3V	23	RF	RF PIN
12	GND	Ground	24	GND	Ground

N428AS Module Package



N428AS Ordering Information

N428AS-169M	SX1262+PA	+37 dBm, 160 - 180 MHz
N428AS-400M	SX1262+PA	+37 dBm, 400 - 410 MHz
N428AS-868M	SX1262+PA	+37 dBm, 860 - 880 MHz
N428AS-915M	SX1262+PA	+37 dBm, 910 - 960 MHz