

N425AS, SX1262 PA Module, +27dBm

N425AS Module Introduce

N425AS SX1262 transceiver LoRa module designed for 169M, 433M, 868M and 915MHz ISM band. Up to +27 dBm output power and down to -125 dBm sensitivity at 1.2kbps.

N425AS is a low-cost and small size spi RF transceiver module for transmitting and receiving digital data via radio frequency. All of the N425's electronics (don't including an antenna) reside on a single PCB, and all operational power is derived from a single supply voltage.

The transceiver module design consists of a SX1262 low-power, integrated sub 1G transceiver RF chip. The module available frequency is from 169 to 960 Mhz, The hardware is designed for maximum range, 1500m + Range (Line of Sight).

N425AS module based TI SX1262 transceiver and PA LNA, the module leads out all pins of SX1262 chip, The interface of the module is SPI port and RF pin. The module is packaged with small size SMD, it is suitable for SMT production. Rapid development without understanding RF. The module supports Arduinio.

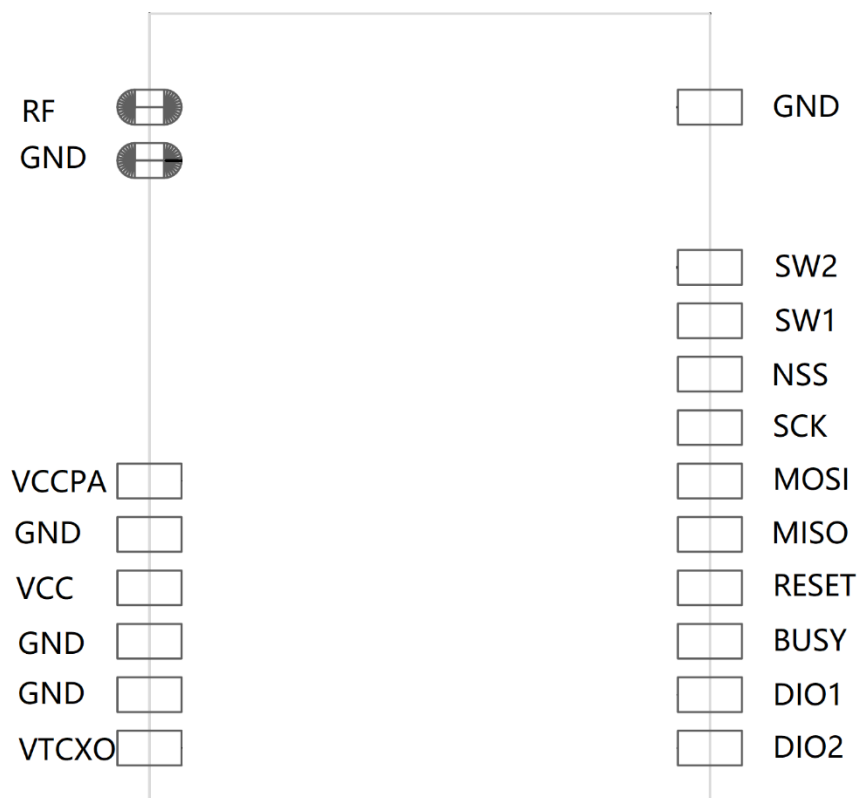
N425AS is suitable for ISM band in China, EU and USA.

N425AS Module Parameter

Model	N425AS
Module Interface	SPI
Frequency	160-175 MHz, 410-480 Mhz, 860-960 Mhz
RF Data Rate	0-200 kbps
Transmitting Power	+27 dBm (VCC=3V, VCCPA=5V)
Receiving Sensitivity	-125 dBm
TX Current	300 mA
RX Current	27 mA
Frequency Deviation	+/- 1 khz
Communication Distance	10 – 3000 m(Visual distance)

Antenna Interface	RF pin, IPEX
Installation Mode	SMD
Volume (mm)	29.5 mm x 21 mm x 3 mm
Operating Voltage	2.5 - 3.6 V
PA Operating Voltage	3 - 7 V (5V type)
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

N425AS Module Pinout



Application Area

Ultra low-power wireless applications

Operating in the 315/433/868/915 MHz ISM/SRD bands

Wireless alarm and security systems

Industrial monitoring and control

Wireless sensor networks

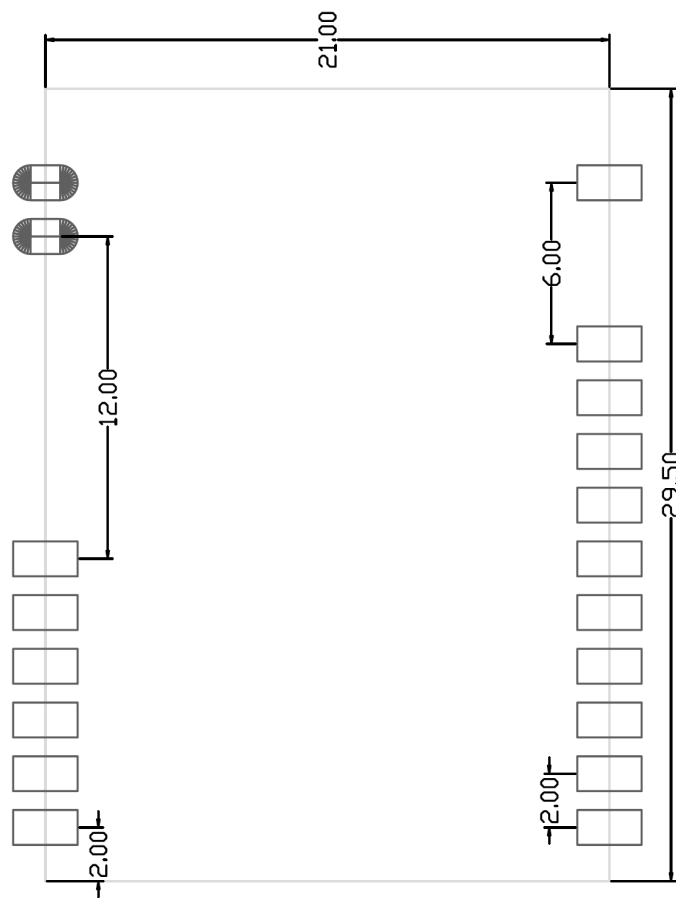
AMR – Automatic Meter Reading

Home and building automation

Wireless MBUS

Arduino

N425AS Layout (mm)



Ordering Information

N425AS-B-169M	SX1262 RF Module	+27 dBm – 160-175Mhz
N425AS-B-433M	SX1262 RF Module	+27 dBm – 410-510Mhz
N425AS-B-868M	SX1262 RF Module	+27 dBm – 860-880Mhz
N425AS-B-915M	SX1262 RF Module	+27 dBm – 910-930Mhz

More information please contact with us.