

N519CS CC1200 PA Module, +37dBm



N519CS Module introduction

N519CS radio module based TI CC1200 transceiver, PA, and TCXO crystal.

N519CS CC1200 transceiver module designed for 169M, 433M, 868M and 915Mhz narrowband band.

N519CS has +37 dBm output power and the sensitivity down to -126 dBm, WMBUS and Arduinio support.

N519CS module has SMD and plug-

in installation mode. The module use narrowband FSK modulation. N519CS FSK module occupyes very little band width.

N519CS hardware is designed for maximum range,12000 m + Range (Line of Sight).

N519CS Module Parameters

Module	Introduce
Interface	SPI
Frequency	169M, 433M, 868M and 915Mhz
RF Data Rate	0 - 500 kbps
TX Power	+37 dBm
RX Sensitivity	-126 dBm at 1.2kbps
TX Current	2000 mA
RX Current	35 mA
Frequency Deviation	+/- 2 Khz

Communication Distance	10 - 12000 m (Visual distance)
Antenna Interface	RF pin, SMA
Installation Mode	SMD, plug-in
Volume (mm)	36 mm x 24 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

N519CS pinout Description

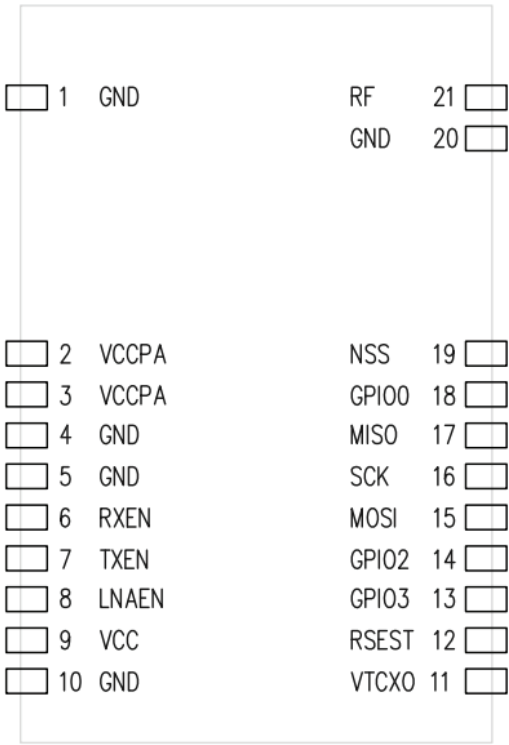
	Pin name	Description		Pin name	Description
1	GND	Ground	12	RESET	RESET
2	VCCPA	5V	13	GPIO3	MCU I/O
3	VCCPA	5V	14	GPIO2	MCU I/O
4	GND	Ground	15	MOSI	SPI
5	GND	Ground	16	SCK	SPI
6	RXEN	MCU I/O	17	MISO	SPI
7	TXEN	MCU I/O	18	GPIO0	MCU I/O
8	LNAEN	MCU I/O	19	NSS	MCU I/O
9	VCC	2-3.6V	20	GND	GND
10	GND	GND	21	RF	RF PIN
11	VTCXO	MCU I/O			

N519CS Logic Description

	TXEN	RXEN	LENAN	VTCXO
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Transmitt	1	0	1	1
Receive	0	1	0	1
Sleep	0	0	1	0

N519CS Module Package



N519CS Module Packaging Diagram



N519CS-169M	CC1200+PA	+37 dBm, Narrowband, 160 - 175 MHz
N519CS-433M	CC1200+PA	+37 dBm, Narrowband, 410 - 510 MHz

N519CS-868M	CC1200+PA	+37 dBm, Narrowband, 860 - 880 MHz
N519CS-915M	CC1200+PA	+37 dBm, Narrowband, 910 - 960 MHz

More information please contact with us.