

N511CS-B, CC1200 Module



N511CS Module Introduce

N511CS CC1200 transceiver narrowband module designed for 169M, 433M, 868M and 915MHz ISM band. Up to +15 dBm output power and down to -120 dBm sensitivity at 1.2kbps.

N511CS is a low-cost and small size spi RF transceiver module for transmitting and receiving digital data via radio frequency. All of the N511'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 CC1200 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).

N511CS module based TI CC1200 transceiver, the module leads out all pins of CC1200 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 Arduino.

N511CS is suitable for ISM band in China, EU and USA.

N511CS Module Parameter

Model	N511CS
Module Interface	SPI
Frequency	160-175 MHz, 410-480 Mhz, 860-960 Mhz

RF Data Rate	0-200 kbps
Transmitting Power	+15 dBm
Receiving Sensitivity	-120 dBm
TX Current	56 mA
RX Current	18 mA
Frequency Deviation	+/- 1 khz
Communication Distance	10 – 1500 m(Visual distance)
Antenna Interface	RF pin
Installation Mode	SMD
Volume (mm)	19 mm x 16 mm x 3 mm
Operating Voltage	2 - 3.6 V
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

N511CS Module Pinout

Pin Number	Function	Describe
1	RF	RF pin
2	GND	
3	GND	
4	GPIO3	Connected to MCU IO port
5	RESET	Connected to MCU IO port
6	VTC	TCXO power supply, Connected to MCU IO port or VCC.
7	GPIO2	Connected to MCU IO port
8	MOSI	SPI
9	SCK	SPI
10	MISO	SPI

11	GPIO0	Connected to MCU IO port
12	NSS	SPI
13	VCC	1.8V to 3.6V
14	GND	

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

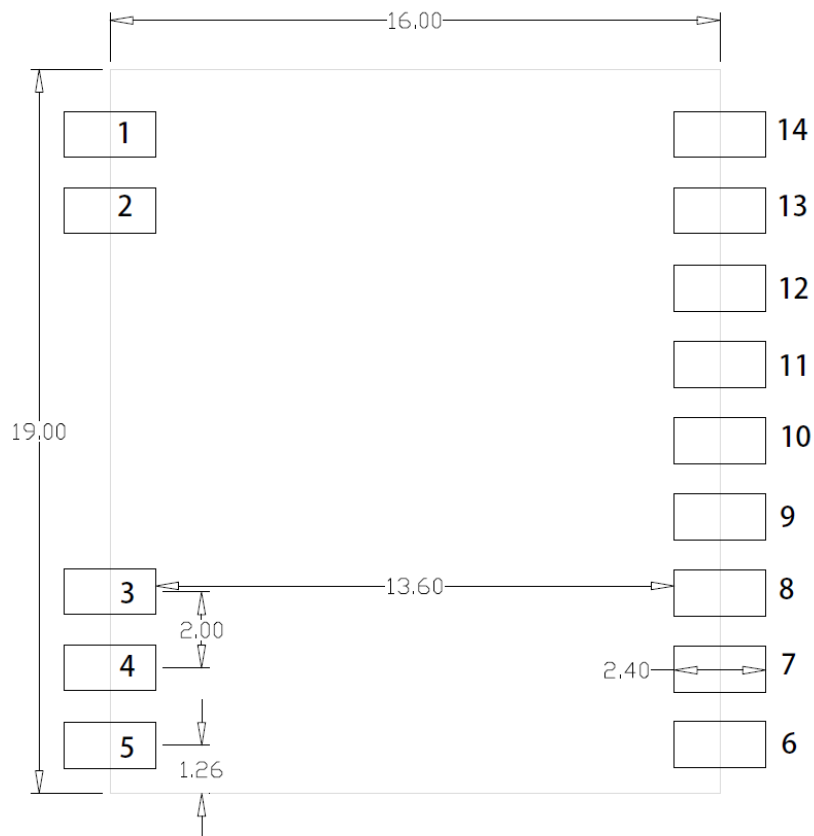
AMR – Automatic Meter Reading

Home and building automation

Wireless MBUS

Arduino

N511CS Layout (mm)



Ordering Information

N511CS-B-169M	RF Module	cc1200	+15 dBm – 160-175Mhz
N511CS-B-433M	RF Module	cc1200	+15 dBm – 410-510Mhz
N511CS-B-868M	RF Module	cc1200	+15 dBm – 860-960Mhz

More information please contact with us.