

N516CS-B CC1200 CC1190 Module, +27dBm



N516CS-B Module introduction

N516CS-B radio module based TI CC1200 transceiver, CC1190, and TCXO crystal.

N516CS-

B CC1200 CC1190 transceiver module designed for 868M and 915 Mhz narrowband band. SPI control. All of the IO has ESD protect. The FSK module has +27 dBm output power and the sensitivity down to -126 dBm, WMBUS and Arduino support.

N516CS-B module has SMD and plug-in installation mode. The module use narrowband FSK modulation. The N516CS-B FSK module occupies very little bandwidth.

N516CS-B hardware is designed for maximum range, 10000 m + Range (Line of Sight).

N516CS-B Module Parameters

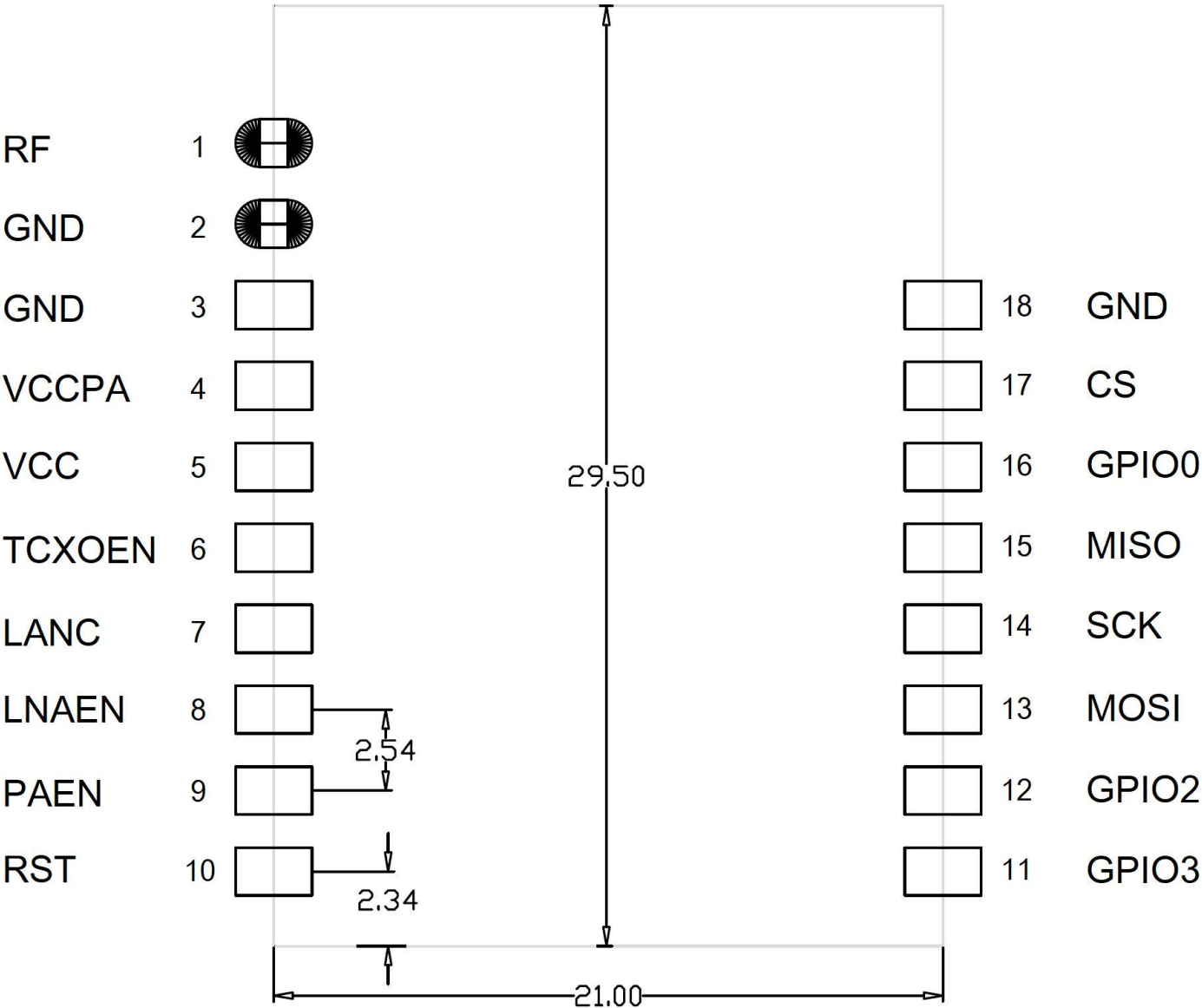
Module	Introduce
Interface	SPI
Frequency	860 - 960 Mhz
RF Data Rate	0 - 500 kbps
TX Power	+27 dBm
RX Sensitivity	-126 dBm
TX Current	480 mA
RX Current	35 mA
Frequency Deviation	+/- 2 Khz
Communication Distance	10 - 10000 m (Visual distance)

Antenna Interface	RF pin, SMA
Installation Mode	SMD, plug-in
Volume (mm)	29.5 mm x 21 mm x 3 mm
Operating Voltage	2 - 3.6 V
Working Temperature and Humidity Environment	Temperature: -30 - 80°C; Humidity 10 - 95 %RH
Storage Temperature and Humidity Environment	Temperature: -30 - 80°C; Humidity 10 - 95 %RH
Weight (kg)	≈10g

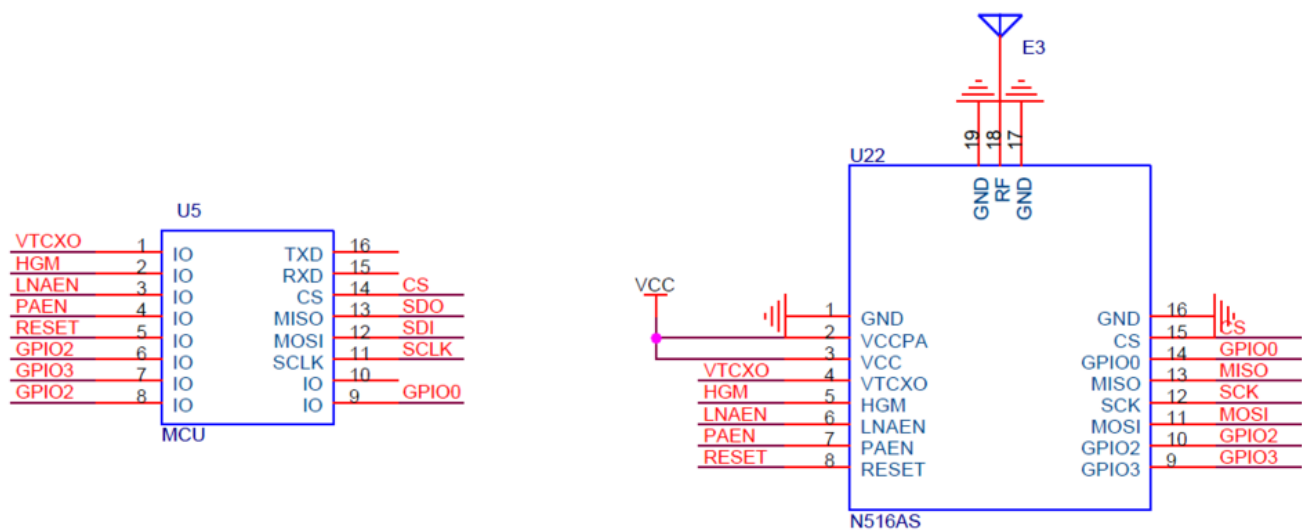
N516CS-B pinout Description

	Pin name	Description		Pin name	Description
1	GND	Ground	9	GPIO3	MCU I/O
2	VCCPA	2-3.9V	10	GPIO2	MCU I/O
3	VCC	2-3.6V	11	MOSI	SPI
4	TCXO	MCU I/O	12	SCK	SPI
5	HGM	MCU I/O	13	MISO	SPI
6	LNAEN	MCU I/O	14	GPIO0	MCU I/O
7	PAEN	MCU I/O	15	CS	SPI
8	RESET	MCU I/O	16	GND	Ground

N516CS-B Module Package



N516CS-B Typical Application Circuit



N516CS-B Ordering Information

N516CS-B-868M	CC1200+CC1190	+27 dBm, Narrowband, 860 - 880 MHz
N516CS-B-915M	CC1200+CC1190	+27 dBm, Narrowband, 910 - 960 MHz