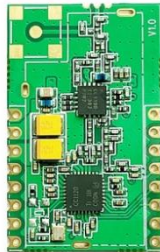


## N516DS CC1200 CC1190 Module, +27dBm



### N516DS Module introduction

N516DS radio module based TI CC1200 transceiver, CC1190, and TCXO crystal.

N516DS CC1200 CC1190 transceiver module designed for 868M and 915 Mhz narrowband band. SPI control. The FSK module has +27 dBm output power and the sensitivity down to -126 dBm, WMBUS and Arduino support.

N516DS module has SMD and plug-in installation mode. The module uses narrowband FSK modulation. The N516DS FSK module occupies very little bandwidth.

N516DS hardware is designed for maximum range, 10000 m + Range (Line of Sight).

### N516DS Module Parameters

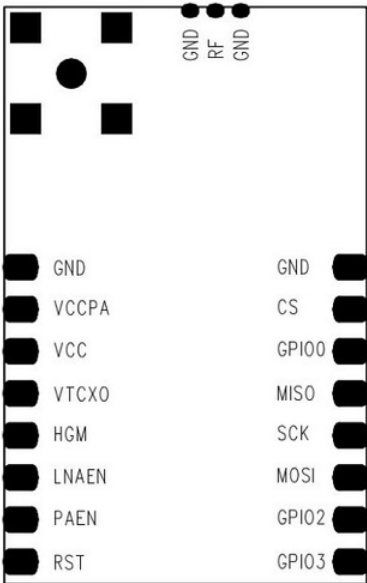
| Module                 | Introduce                      |
|------------------------|--------------------------------|
| Interface              | SPI                            |
| Frequency              | 860 - 960 Mhz                  |
| RF Data Rate           | 0 - 200 kbps                   |
| TX Power               | +27 dBm                        |
| RX Sensitivity         | -126 dBm                       |
| TX Current             | 500 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)            | 36 mm x 23 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                                          |

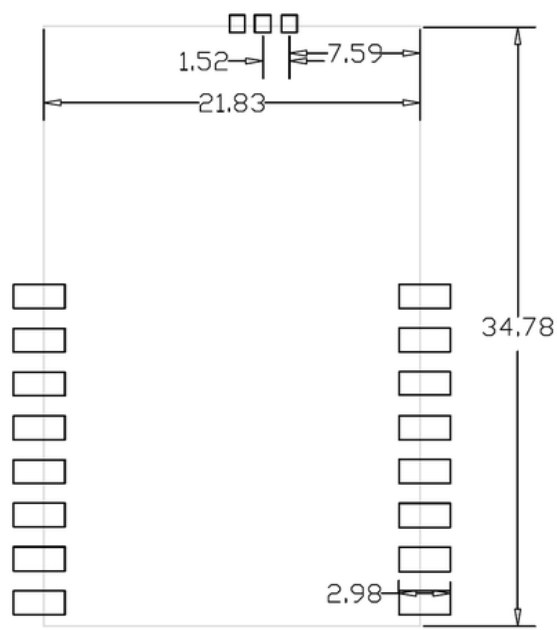
N516DS pinout Description

|   | 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      |

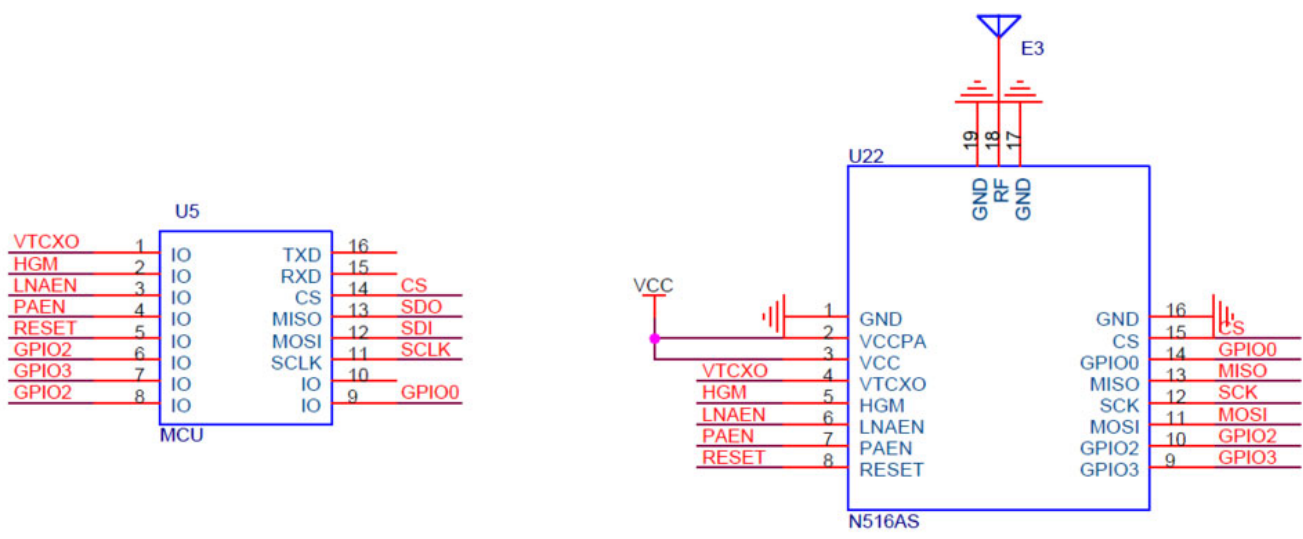
N516DS Module Package



N516DS Module Packaging Diagram



N516DS Typical Application Circuit



N516DS Ordering Information

|             |               |                                    |
|-------------|---------------|------------------------------------|
| N516DS-868M | CC1200+CC1190 | +27 dBm, Narrowband, 860 - 880 MHz |
| N516DS-915M | CC1200+CC1190 | +27 dBm, Narrowband, 910 - 960 MHz |

More information please contact with us.