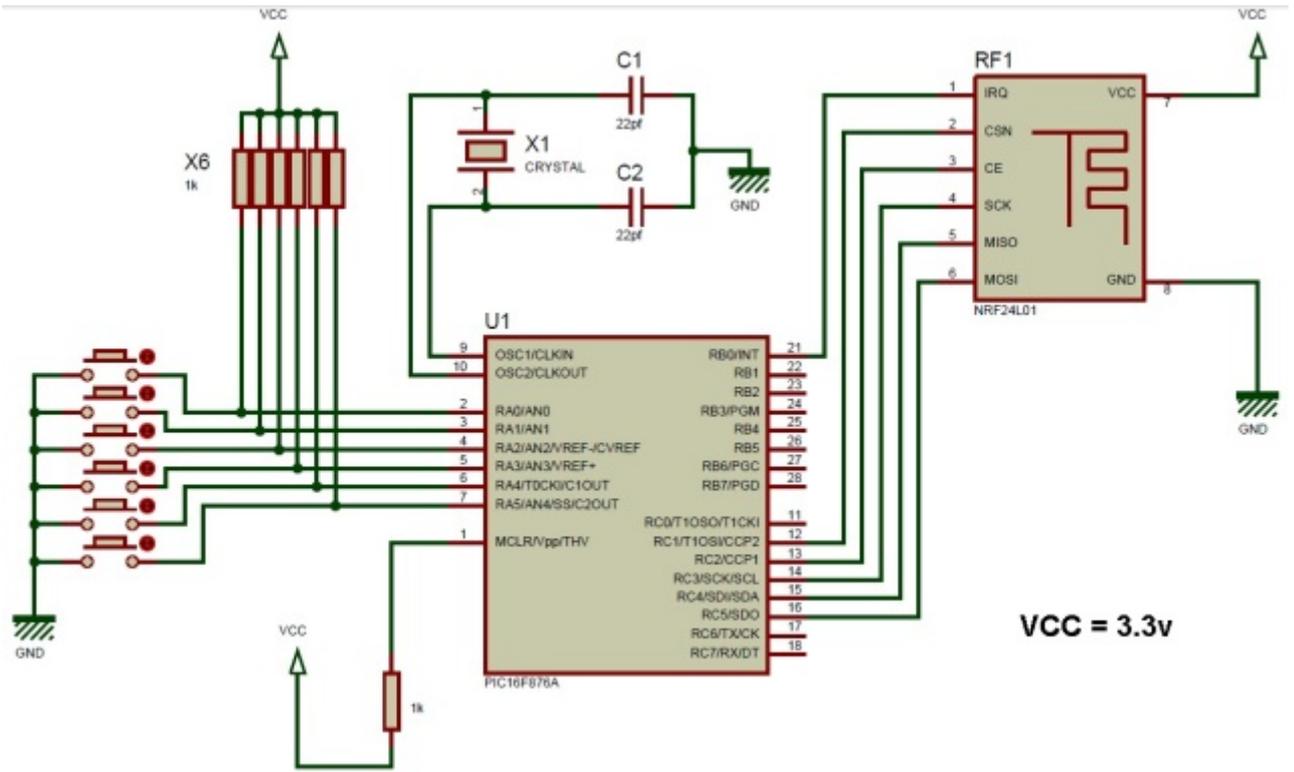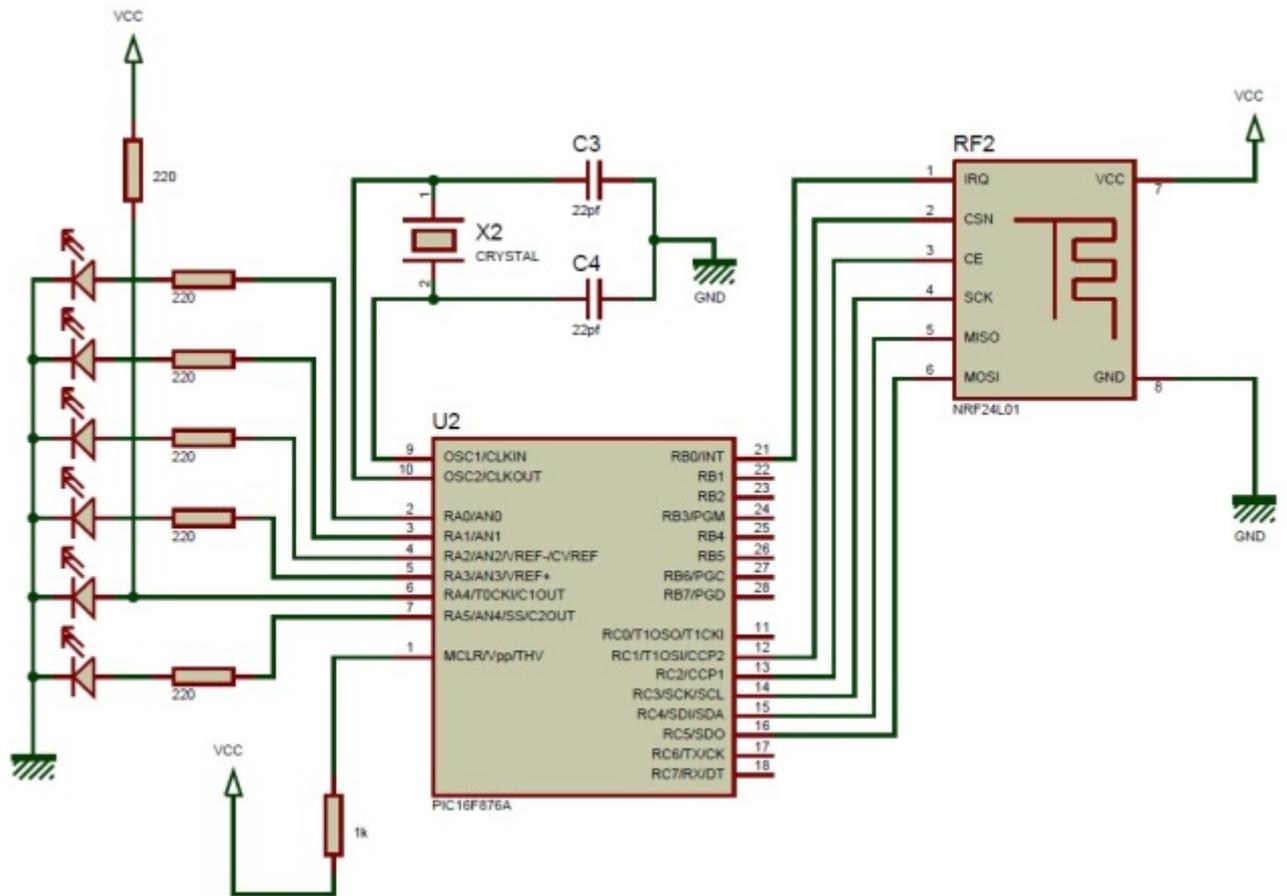**SYC** SEMICONDUCTORES Y COMPONENTES

Emisor:

Receptor:

!!! nRF24L01 VCC can be at most 3.6V so DO NOT CONNECT to 5V provided by the USB bus or any higher voltage !!!

GND — VCC
CE — CSN
SCLK — MOSI
MISO — IRQ

16.000

Product description

AS01-ML01S is a 2.4GHz, 1mW, high-speed (maximum air rate of up to 2Mbps), high stability, industrial grade wireless transceiver data transmission module.

Module comes with high-performance PCB antenna, precise impedance matching, using the original nRF24L01P NORDIC RF chips working in 2.4GHz ~ 2.5GHz ISM band.

The module transmits sufficient power, spectral characteristics, small harmonics, small channel crosstalk, small size, Murata all original material, industry-standard model.

Features

It comes with high-performance PCB antenna, the limit up to 200 m
Ultra-small size 19x12mm, 1.27mm single chip package
Operating frequency range, 2.400GHz ~ 2.525GHz
Wide voltage range, 1.8V ~ 3.6V

Operating temperature range, -40 ℃ ~ + 85 ℃

Four adjustable transmit power,
Data transfer rate support 250Kbps, 1Mbps, 2Mbps
Receive current 12.6mA, 1mW power emission current 16mA, when the power-down mode only 1uA
6 data channels, 126 communications channel, 1MHz Stepping
CRC checksum and multipoint address enhanced "ShockBurst" mode, the hardware of control
Data packets can transmit 1 ~ 32Byte of data each
4-wire SPI communication port, the communication speed of up to 10Mbps, adapted to be connected with a variety of MCU, simple programming
You can set the operating frequency, mailing address, transmission rate and packet length by software
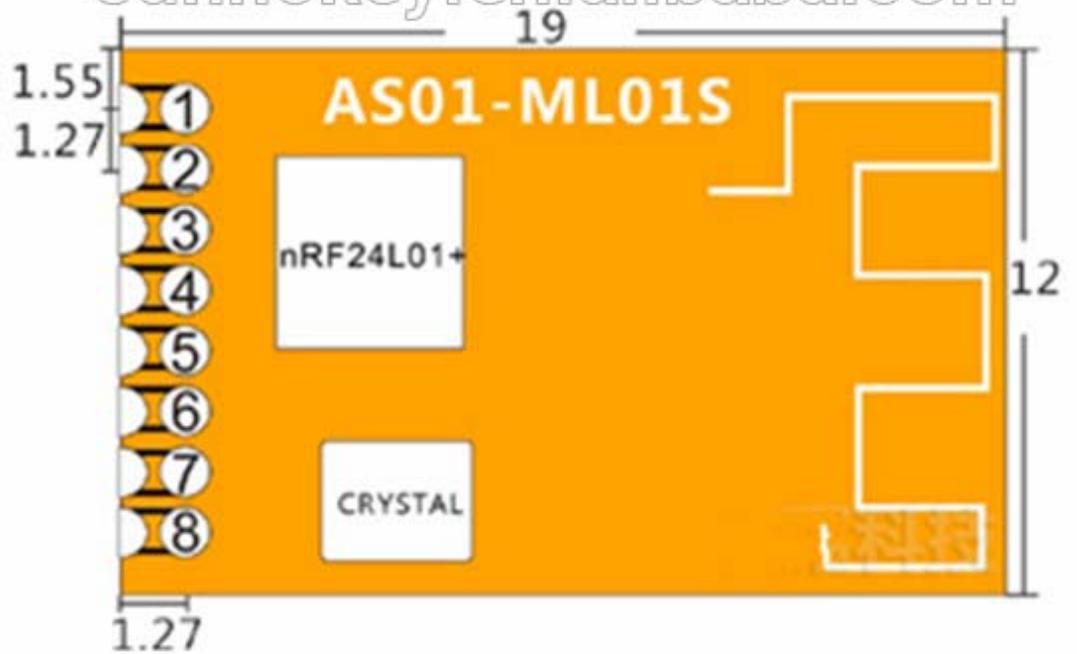Module IRQ interrupt output instructions

Application
Hotel electronic door locks, biometric access control systems
Intelligent teaching equipment, baby care, medical ward call system
Household appliances and lighting intelligent control
Water, electricity, gas, heating automatic meter reading fee or reactive power compensation system and network monitoring
LED screen wireless transmission of text, pictures and radio control
Wireless crane scale, vehicle monitoring, aging equipment testing
wireless mouse, keyboard, joystick consoles
UAV Remote Communications
Wireless Access
Wireless data communication
Security System

Remote control device
Telemetry
Intelligent sports equipment
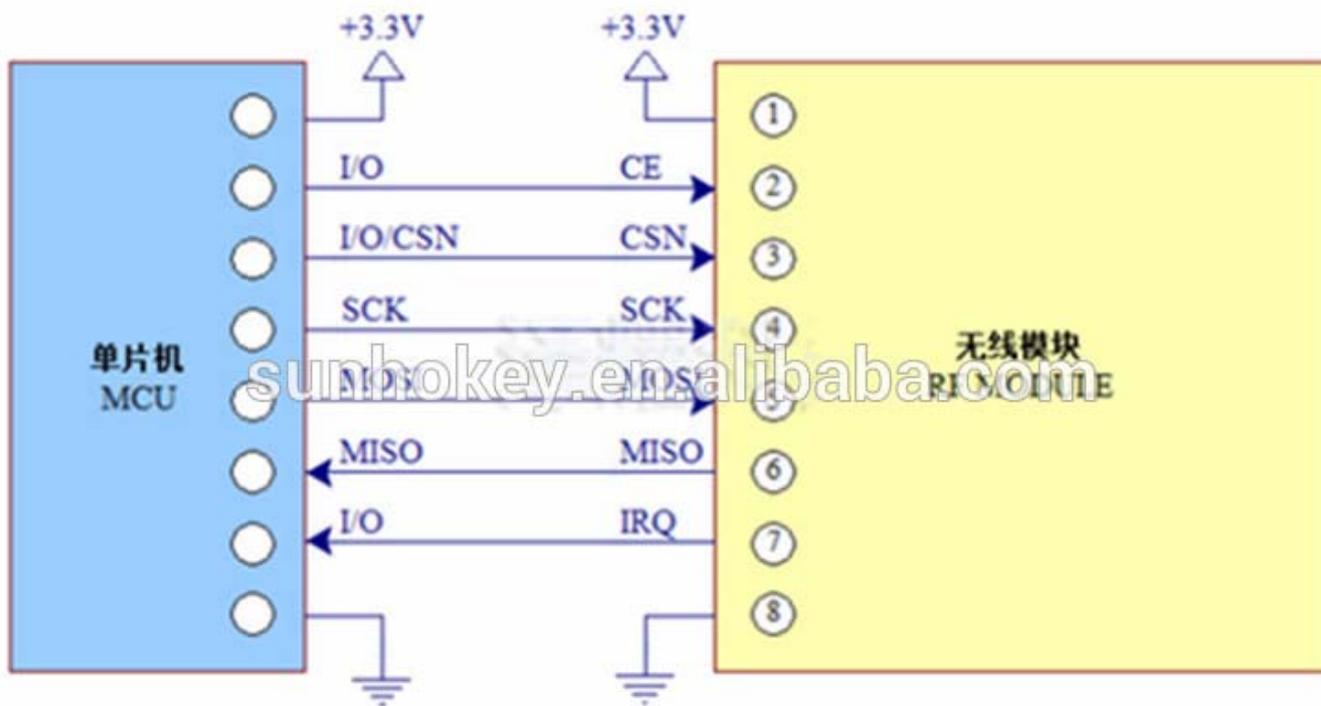Industrial Sensors
Toy

Dimensions

Application Circuit

Comment:

1, CE can access high long-term, but the module write registers must first be set to POWER DOWN power-down mode, it is recommended to connect to the microcontroller IO port CE.
2, IRQ do not take, can be used to obtain the SPI interrupt status query. But it is recommended to use the external interrupt

connection.

3, pay attention to good grounding, there is a large area of paving, power supply ripple, should increase the filter capacitor module as close to VCC and GND pins.