

NRF24L01+PA+LNA Wireless Module with Antenna 1000

Meters Long Distance

Description:

Voltage: 3-3.6V

Max output power: +20 dBm

Working current in transmit mode: 115mA

Working current in receiver mode: 45mA

Current in mode: 4.2uA

Operating temperature: -20-70 degree

Receiver sensitivity: -92dBm in 2Mbps mode, -95dBm in 1Mbps mode, -104dBm in 250kbps mode

PA growth: 20dB

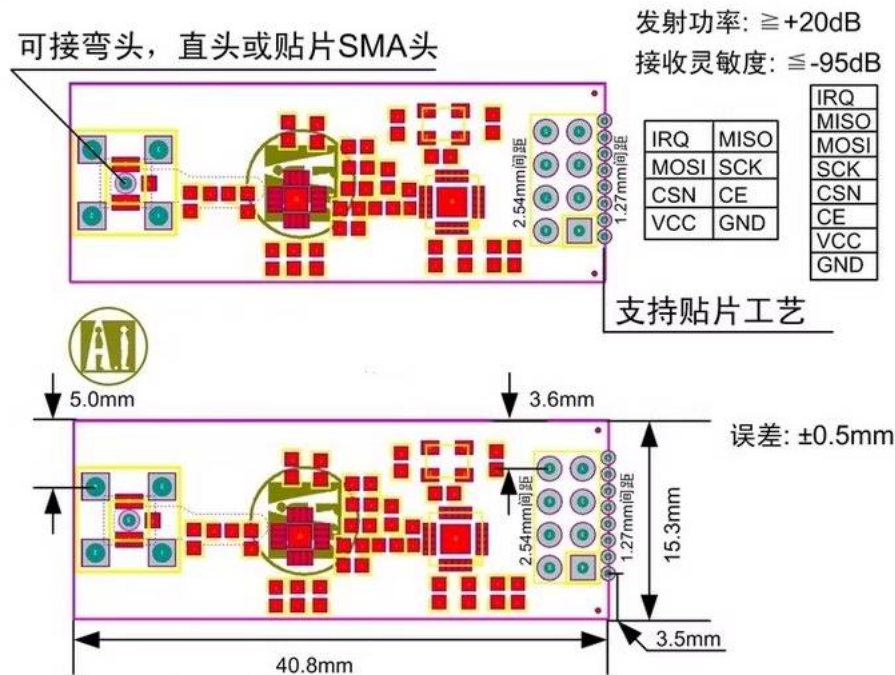
LAN growth: 10dB

LAN noise figure: 2.6dB

Antenna growth: 2dBi

2M rate: 520m

24L01-PA接口尺寸说明



The NRF24L01P+PA+LNA is a high-power and highly sensitive wireless data

transmission module specially developed for ultra-long-distance data transmission. The NRF24L01P+PA+LNA wireless module operates on the unlicensed 2.4G ISM frequency band and can be used for point-to-point applications or can form a star network.

The core of the NRF24L01P+PA+LNA wireless module is the latest high-performance wireless transmission chip NRF24L01+. Combined with our professional design, it adds high-power PA and LNA chips, RF switches, bandpass filters, etc., to form a professional full-duplex RF amplifier, which greatly expands the effective communication distance.

In the RF part, a large number of optimization matching adjustments have been made, achieving the highest transmission efficiency and the minimum harmonics, making the RF interference from external devices of the NRF24L01P+PA+LNA wireless module reach the lowest level. At the same time, it is not easily interfered by other devices, greatly improving the stability of operation.

The NRF24L01P+PA+LNA wireless module has an extremely high integration degree, with a size of only 41mm * 15.5mm. It is convenient to be embedded in any product with tight space. Customers only need to add an MCU and control the NRF24L01P+PA+LNA wireless module through the SPI interface to complete the design of the ultra-long-distance wireless data transmission system. There is no need to worry about the research and development of the RF part at all, which significantly reduces the research and development funds and shortens the research and development cycle.



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