

## Overview

Core51822 is a wireless module based on nRF51822 - the Multiprotocol Bluetooth® 4.0 low energy/2.4 GHz RF SoC designed for ULP (ultra low power) wireless applications.

## Core51822 Specifications

Onboard chip: nRF51822

Communication distance (open outdoor@1M data rate): 30m

Frequency range: 2.4GHz

Operating voltage: 2.0V ~ 3.6V

Operating temperature: -40°C ~ 85°C

Dimension (PCB): 24.5mm x 32.26mm

Expansion pinheader: all the I/Os except P0.26 and P0.27

Pinheader pitch: 2.00mm

Spacing between pinheaders on the left side and the right side: 18.00mm

Antenna: onboard antenna

## nRF51822 Features

2.4 GHz multiprotocol RF transceiver

ARM® Cortex™-M0 32 bit processor

128 bit AES HW encryption

256kB flash & 32kB RAM

Programmable Peripheral Interconnect (PPI)

Digital interfaces: SPI, I2C, UART

10 bit ADC

Programmable output power: -20 to +4 dBm

Independent application development and protocol stack

Fully compatible with NRF24L series

Pinout compatible with NRF51xxx series

Global separate power management

Operating voltage: 1.8 V ~ 3.6 V

## Applications

Wearable devices

Bluetooth intelligent application

Mobile phone accessories

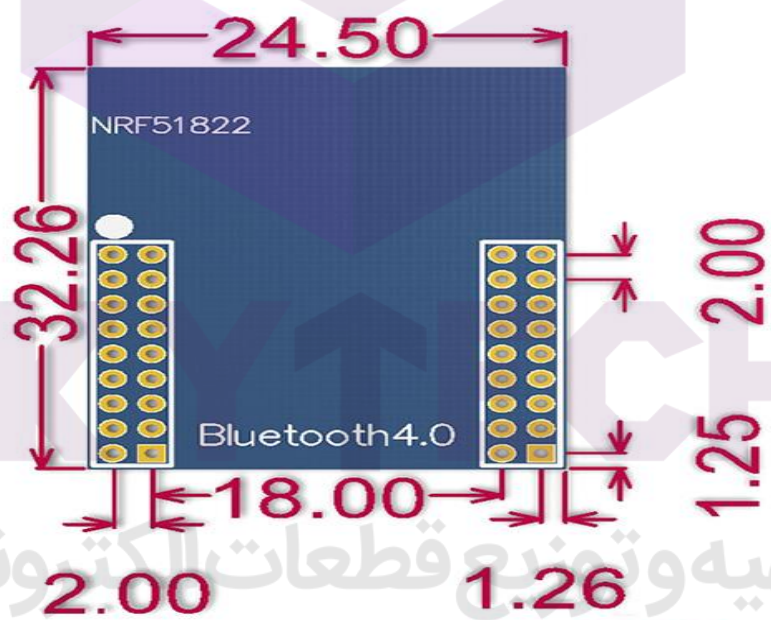
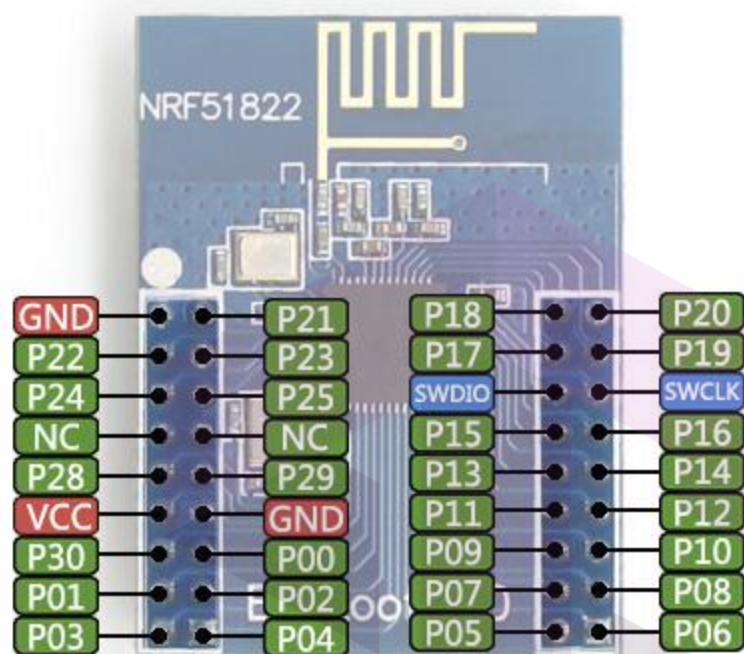
RFID labels

Smart home appliances

Industry control

Data acquisition system

تهیه و توزیع قطعات الکترونیک



Unit:mm