

Technical Description (Model: AD112)

- CP2102 is USB to UART Converter
- U100, nRF24AP1 is 2.4GHz Transceiver
- E101 is Chip Antenna

The AD112 is a 2.4GHz Wireless Dongle, which is operating at 2405MHz to 2479MHz, in 1MHz intervals. It is operate in conjunction with SZ912, SE833 or other compatible devices. For example, the chest belt is worn on the chest and detects the user's heart rate. The microcontroller in the chest belt will calculate the heart rate of the user and activate the nRF24AP1 2.4GHz transmitter IC to send encoded RF signal containing the heart rate to this USB dongle and it can store the received heart rate information into PC.

The RF output of the nRF24AP1 2.4GHz transmitter IC is connected to the antenna via an Antenna matching network. This network is used to match the impedance of the antenna to the nRF24AP1 2.4GHz transmitter IC and suppress unwanted spurious transmission.