

Dongle Antenna Specification

Dongle PIFA Antenna

Frequency (MHZ)	2402-2480
Maximum gain (db)	-0.5
Impedance (Ω)	50
Antenna Type	Plannar Inverted Antenna onboard
Manufacturer	Dongguan Leku Trading Co., Ltd

The Nano Dongle antenna adopts the ultra-small PIFA antenna, and because of the limited area of PCB, the gain of the antenna will be smaller than that of other antennas. The communication distance can reach about 15 ~ 20 meters. The size of Dongle PCB antenna is 11.4 * 3mm and the thickness of PCB is 0.6mm. The specific size of the antenna is shown in figure 1, the physical object is shown in figure 2.

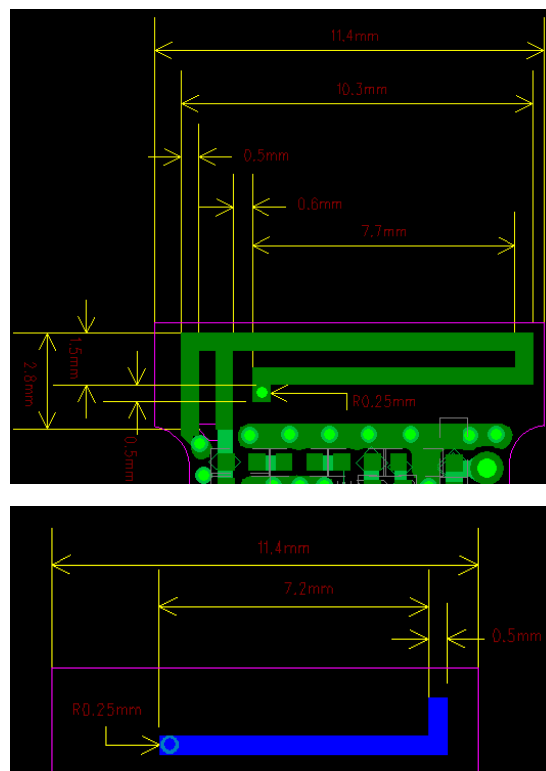


Figure 1 :Nano Dongle



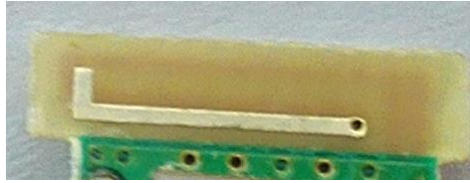


Figure 2: Nano Dongle Antenna

The antenna's S11 test data is shown in figure 3, covering the entire 2.4 G frequency band.



Figure 3 :Nano Dongle Antenna S11

The gain simulation data of the antenna is shown in figure 4, with the maximum gain of -0.5db.

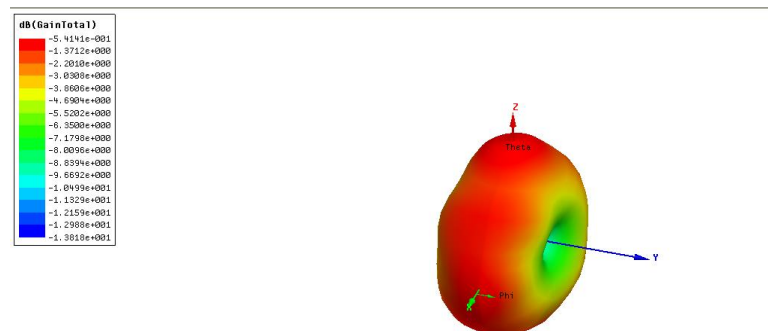


Fig.4 Nano Dongle antenna gain and 3D direction diagram (the X-axis is the left and right direction of figure 1, and the Y-axis is the upper and lower direction of figure 1)