

## antenna SPECIFICATION

Product description: 2.4G PCB Antenna

Uni Link's part number: ANTENNA-2400

Issue Date: 2022-12-09

Note: 2400-2500MHZ

Manufacturer: Shenzhen Sonoff Technologies Co.,Ltd.

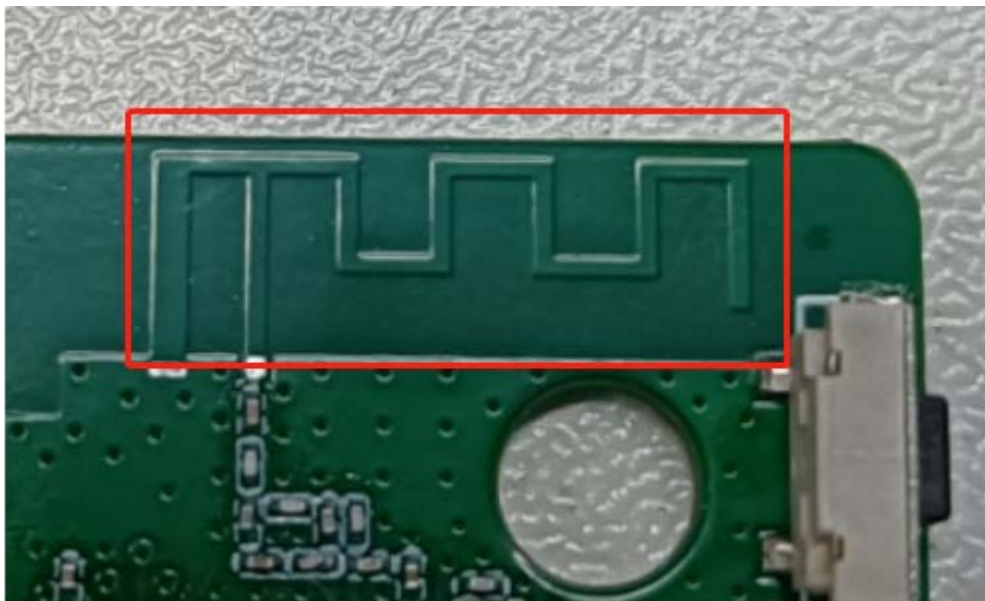
Address: 3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong,  
China

### 1、（PRODUCT TECHNICAL SPECIFICATION）

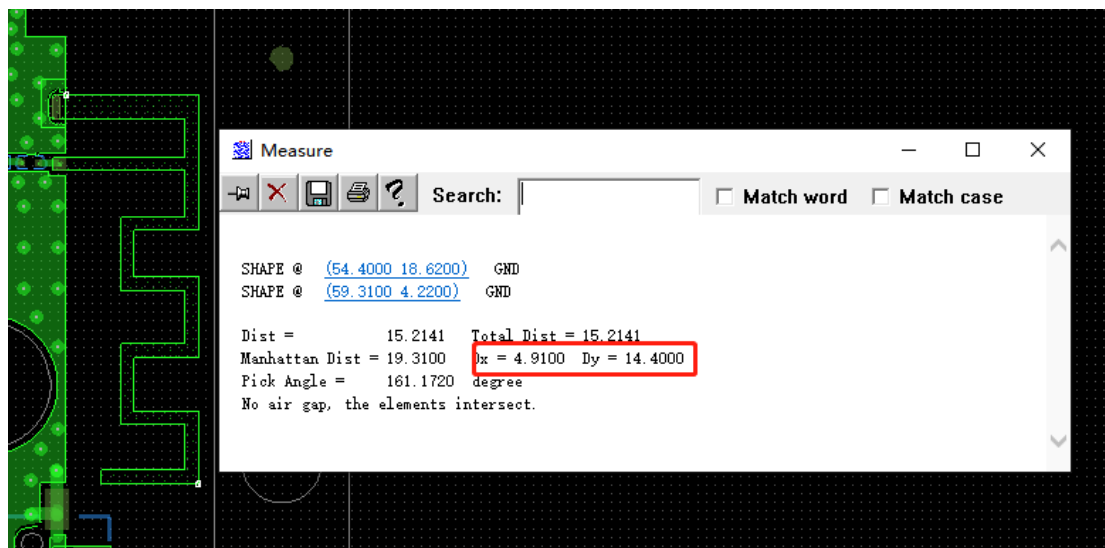
| Electrical Specifications    |            |
|------------------------------|------------|
| Frequency Range (MHz)        | 2400-2500  |
| Input Impedence ( $\Omega$ ) | 50         |
| V.S.W.R                      | $\leq 1.5$ |
| Gain (dBi)                   | -1.04      |
| Polarization Type            | Horizontal |
| Power Capacity (w)           | 2          |
| Mechanical Specifications    |            |
| Antenna Length (mm)          | 14.4mm     |
| Radiator                     | Cuprum     |
| Connect Type                 | PCB        |

|                             |                        |
|-----------------------------|------------------------|
| Working Temp(    °C)        | -10~40                 |
| Storage Temperature(    °C) | -20~55                 |
| antenna size                | 14.4mmx 4.91mm x 0.1mm |

## 2、PRODUCT PICTURE



## 3、PRODUCT SPECIFICATION CHART



#### 4、Antenna Gain

| FETUKEJI                   |        |        |        |        |        |        |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency ID               | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
| Frequency (MHz)            | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Point Values               |        |        |        |        |        |        |        |        |        |        |        |
| Ant. Port Input Pwr. (dBm) | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Tot. Rad. Pwr. (dBm)       | -6.67  | -6.88  | -6.78  | -6.49  | -7.18  | -7.20  | -7.18  | -7.21  | -7.13  | -7.90  | -7.87  |
| Peak EIRP (dBm)            | -1.59  | -1.70  | -1.44  | -1.04  | -1.84  | -1.85  | -1.89  | -2.20  | -2.49  | -3.42  | -3.46  |
| Directivity (dBi)          | 5.08   | 5.18   | 5.34   | 5.45   | 5.34   | 5.35   | 5.28   | 5.01   | 4.64   | 4.48   | 4.41   |
| Efficiency (dB)            | -6.67  | -6.88  | -6.78  | -6.49  | -7.18  | -7.20  | -7.18  | -7.21  | -7.13  | -7.90  | -7.87  |
| Efficiency (%)             | 21.50  | 20.50  | 21.00  | 22.40  | 19.10  | 19.00  | 19.20  | 19.00  | 19.40  | 16.20  | 16.30  |
| Gain (dBi)                 | -1.59  | -1.70  | -1.44  | -1.04  | -1.84  | -1.85  | -1.89  | -2.20  | -2.49  | -3.42  | -3.46  |
| NHPRP $\pm \pi/4$ (dBm)    | -7.53  | -7.53  | -7.18  | -6.76  | -7.53  | -7.58  | -7.58  | -7.84  | -8.15  | -9.00  | -9.04  |
| NHPRP $\pm \pi/6$ (dBm)    | -9.03  | -9.04  | -8.70  | -8.29  | -9.06  | -9.11  | -9.12  | -9.38  | -9.68  | -10.54 | -10.60 |
| NHPRP $\pm \pi/8$ (dBm)    | -10.18 | -10.19 | -9.85  | -9.43  | -10.21 | -10.25 | -10.26 | -10.53 | -10.83 | -11.71 | -11.78 |
| Upper Hem. PRP (dBm)       | -9.99  | -10.15 | -9.98  | -9.65  | -10.30 | -10.31 | -10.26 | -10.27 | -10.17 | -10.90 | -10.84 |
| Lower Hem. PRP (dBm)       | -9.39  | -9.65  | -9.60  | -9.36  | -10.08 | -10.13 | -10.11 | -10.17 | -10.12 | -10.92 | -10.93 |
| Upper Hem. PRP (%)         | 10.01  | 9.67   | 10.04  | 10.84  | 9.33   | 9.32   | 9.42   | 9.39   | 9.63   | 8.14   | 8.24   |
| Lower Hem. PRP (%)         | 11.51  | 10.83  | 10.97  | 11.59  | 9.82   | 9.72   | 9.74   | 9.63   | 9.73   | 8.10   | 8.07   |

#### 5、Image of antenna field shape test

