

# Antenna Specification

## 1. General Description

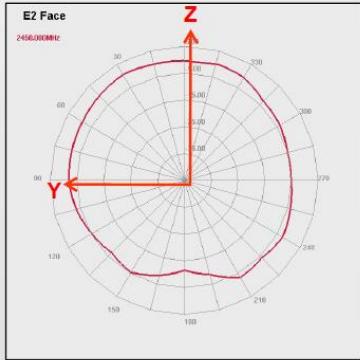
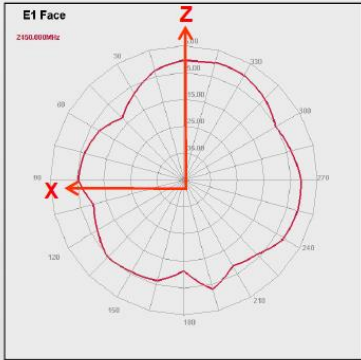
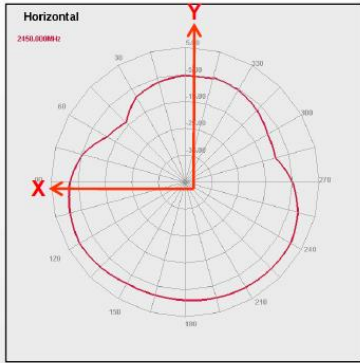
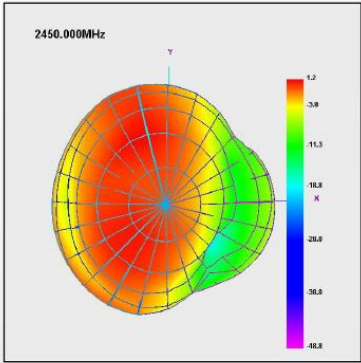
|                  |                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------|
| Manufacturer:    | Shenzhen Jiexuntong Wireless Technology Co., Ltd.                                                                |
| Address:         | Room A-409, 425-426, Tong'an Logistics Information Port, No. 30, Aviation Road, Gushu, Bao'an District, Shenzhen |
| Product Name:    | Smart Lock                                                                                                       |
| Product model:   | AH1, AH1P                                                                                                        |
| Antenna type:    | BT: PCB/FPC Antenna,<br>Wi-Fi: FPC Antenna,                                                                      |
| Test Frequency:  | 2400-2500MHz                                                                                                     |
| Peak gain: (dBi) | (AH1-BT-PCB) PCB BT Antenna:1.83<br>(AH1-BT-JXT) FPC BT Antenna: 2.76<br>(AH1-WIFI-JXT) Wi-Fi Antenna:1.47       |

## 2. Gain and Efficiency

PCB BT Antenna:

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 45.57       | 1.7           |
| 2405          | 46.1        | 1.73          |
| 2410          | 45.16       | 1.64          |
| 2415          | 45.22       | 1.81          |
| 2420          | 45.21       | 1.8           |
| 2425          | 46.13       | 1.79          |
| 2430          | 46.32       | 1.74          |
| 2435          | 46.12       | 1.83          |
| 2440          | 44.97       | 1.76          |
| 2445          | 44.28       | 1.57          |
| 2450          | 46.31       | 1.23          |
| 2455          | 44.43       | 1.08          |
| 2460          | 43.93       | 1.1           |
| 2465          | 42.54       | 0.85          |
| 2470          | 42.67       | 0.56          |
| 2475          | 42.55       | 0.54          |
| 2480          | 42.36       | 0.57          |
| 2485          | 41.9        | 0.47          |
| 2490          | 41.64       | 0.31          |
| 2495          | 41.22       | 0.25          |
| 2500          | 40.68       | 0.21          |

Radiation Pattern:

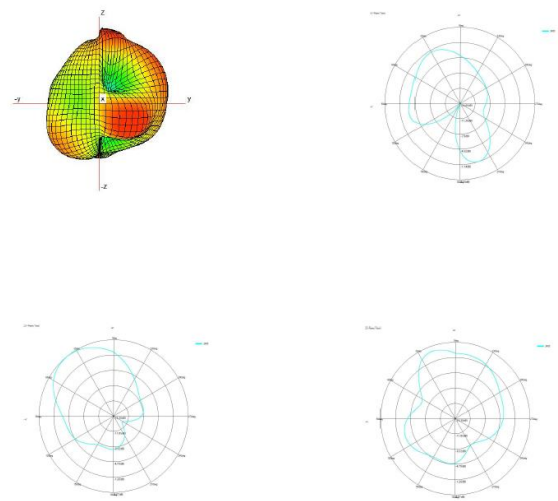


FPC BT Antenna:

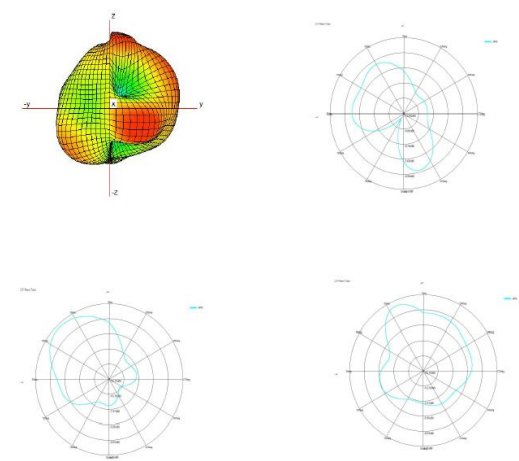
| Freq (MHz) | Gain (dBi) | Efficiency (%) |
|------------|------------|----------------|
| 2400       | 2.09       | 41.41          |
| 2410       | 2.13       | 41.57          |
| 2420       | 1.93       | 41.62          |
| 2430       | 1.92       | 42.05          |
| 2440       | 2.07       | 41.95          |
| 2450       | 2.49       | 42.82          |
| 2460       | 2.76       | 43.34          |
| 2470       | 2.50       | 43.51          |
| 2480       | 2.24       | 43.11          |
| 2490       | 2.40       | 44.13          |
| 2500       | 2.63       | 44.18          |

Radiation Pattern:

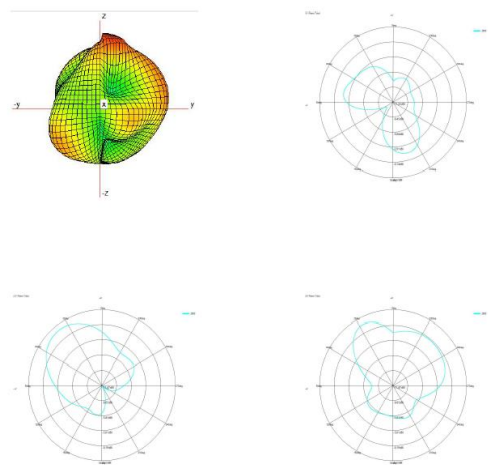
BT-2400MHz



BT-2450MHz



**BT-2500MHz**

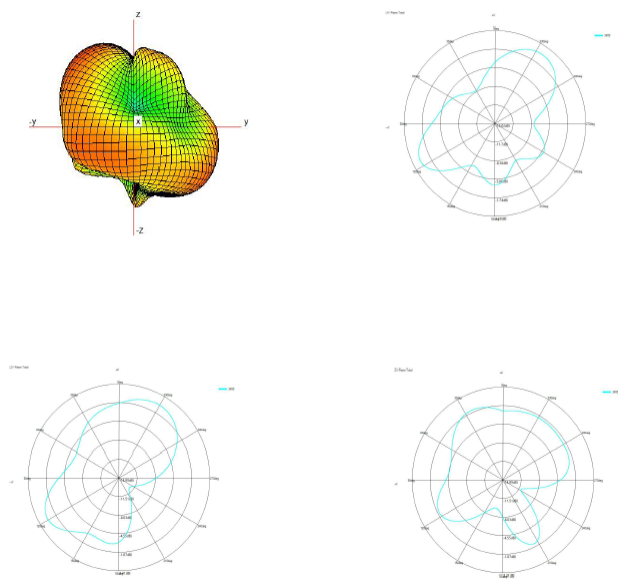


**Wi-Fi Antenna:**

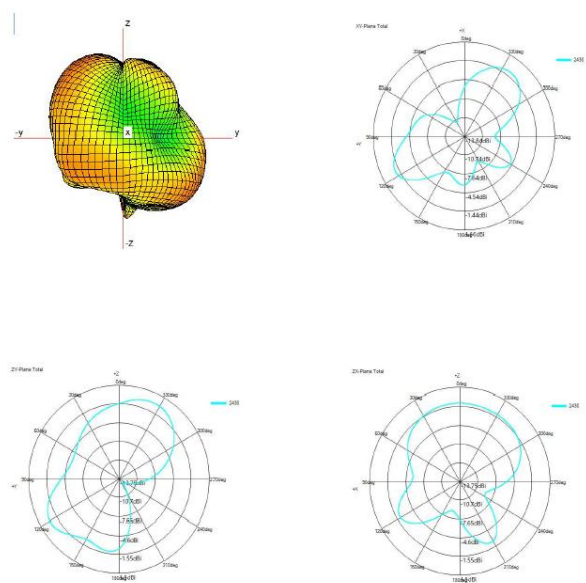
| Freq (MHz) | Gain(dBi) | Efficiency (%) |
|------------|-----------|----------------|
| 2400       | 1.41      | 53.99          |
| 2410       | 1.34      | 51.45          |
| 2420       | 1.32      | 48.77          |
| 2430       | 1.47      | 48.52          |
| 2440       | 1.41      | 48.85          |
| 2450       | 1.43      | 49.26          |
| 2460       | 1.25      | 48.11          |
| 2470       | 1.16      | 47.93          |
| 2480       | 0.87      | 47.29          |
| 2490       | 0.89      | 46.21          |
| 2500       | 0.61      | 43.49          |

**Radiation Pattern:**

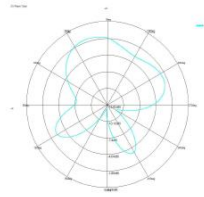
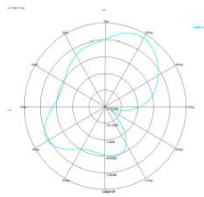
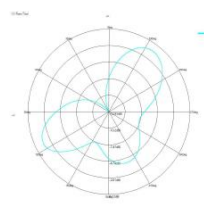
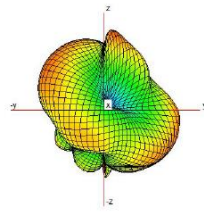
WIFI-2400MHz



WIFI-2430MHz

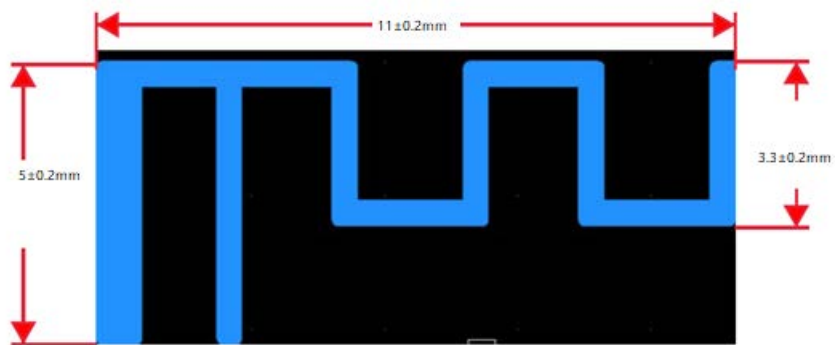


WIFI-2500MHz

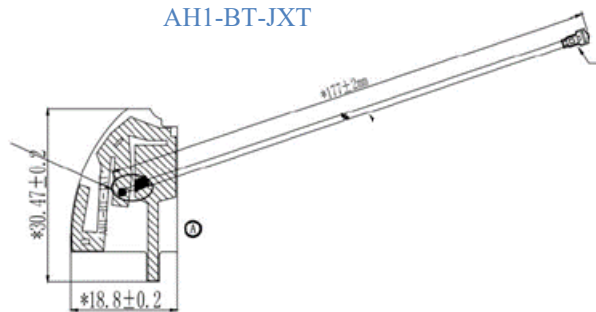


### 3. Antenna Dimensions

#### AH1-BT-PCB



#### AH1-BT-JXT



#### AH1-WIFI-JXT

