

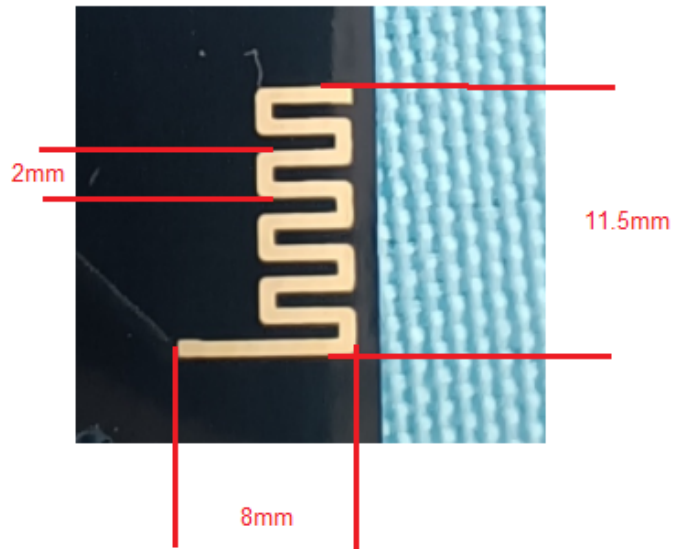
# Antenna Specification

## Specifications

### Summary

| ITEM                 | SPEC.  |
|----------------------|--|
| Model Name           | IBM 2.4 GHz  |
| Center Frequency     | 2402 MHz -2.10 dBi<br>2441 MHz -1.78 dBi<br>2480 MHz -1.52 dBi |
| MAX. GAIN            | -1.52dBi   |
| Polarization         | Horizontal   |
| Azimuth Beam Pattern | Omni-directional   |
| Impedance            | 50 $\Omega$  |
| Antenna Length       | 11.5*8mm   |
| Manufacturer         | Jiangxi Suichuan<br>Tongming Technology<br>Co.,Ltd             |

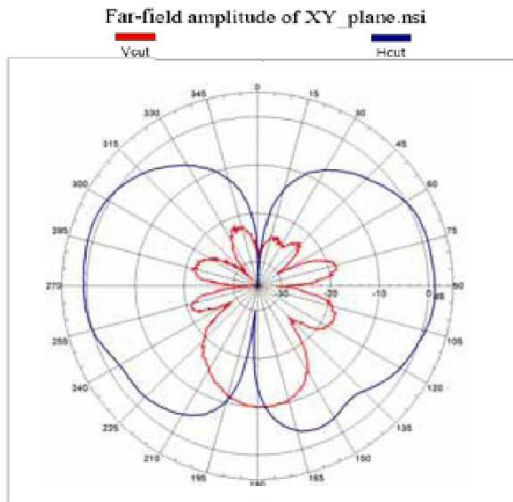
### Antenna Photo & Length (mm)



## 1. Main antenna : 2402 MHz

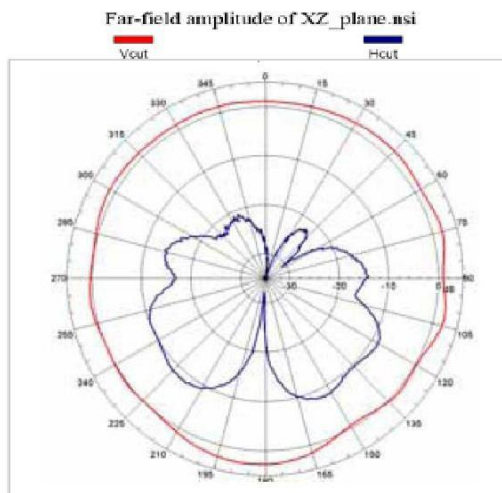
### 1.1 Horizontal

#### ◆ XY-plane



### 1.2 Vertical

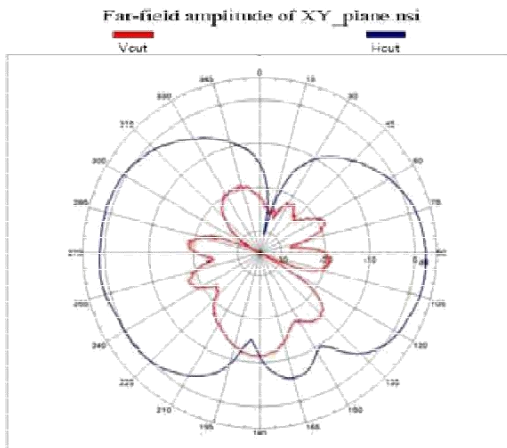
#### ◆ XZ-plane



## 2. Main antenna : 2441 MHz

### 2.1 Horizontal

## ◆ XY-plane

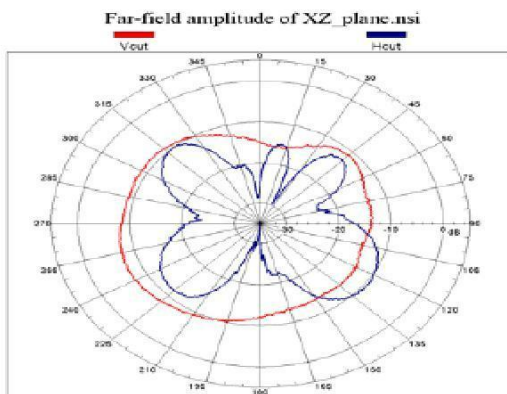


Unit : dBi

|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -2.36     | -7.43     |
| V cut | -11.01    | -13.04    |
| Total | -1.78     | -8.05     |

## 2.2 Vertical

### ◆ XZ-plane

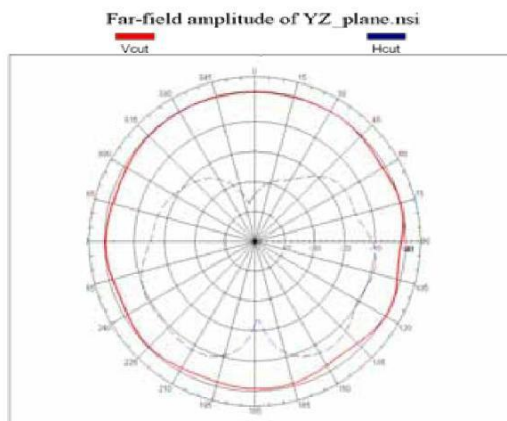


|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -7.85     | -14.39    |
| V cut | -7.02     | -12.30    |
| Total | -5.80     | -8.78     |

## 3. Main antenna : 2480 MHz

### 3.1 Horizontal

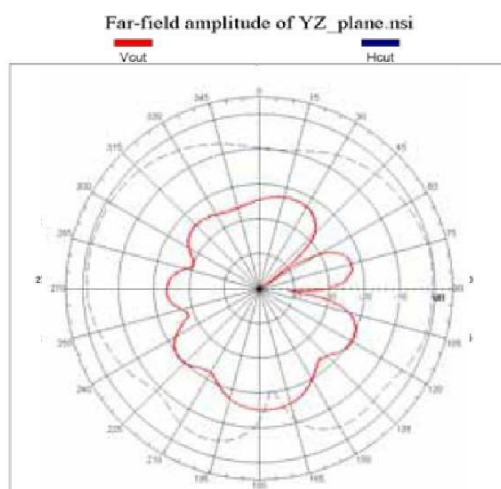
#### ◆ YZ-plane



|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -4.74     | -10.75    |
| V cut | -6.47     | -11.05    |
| Total | -1.52     | -7.49     |

### 3.2 Vertical

#### ◆ YZ-plane



|       | Peak gain | Avg. gain |
|-------|-----------|-----------|
| H cut | -5.75     | -9.75     |
| V cut | -12.47    | -16.23    |
| Total | -4.52     | -8.72     |

### 4. Result

| Center Frequency | Maximum Ant Gain |           |
|------------------|------------------|-----------|
| 2402MHz          | H                | -2.10 dBi |
|                  | V                | -5.02 dBi |
| 2441 MHz         | H                | -1.78 dBi |
|                  | V                | -5.80 dBi |
| 2480 MHz         | H                | -1.52 dBi |
|                  | V                | -4.52 dBi |