

# Antenna Gains

## Model(s): A3523, A3424

### Wi-Fi/BT Antenna Gain:

#### 1. Wi-Fi/BT 2.4GHz/ 802.15.4 (**ANT 2**); Type: IFA

| Band   | Frequency (MHz) | Peak Gain (Horizontal/Vertical) (dBi) |
|--------|-----------------|---------------------------------------|
| 2.4GHz | 2412            | -4.7                                  |
|        | 2442            | -4.3                                  |
|        | 2472            | -3.8                                  |

#### 2. Wi-Fi/BT 2.4GHz/ 802.15.4 (**ANT 1**); Type: IFA

| Band   | Frequency (MHz) | Peak Gain (Horizontal/Vertical) (dBi) |
|--------|-----------------|---------------------------------------|
| 2.4GHz | 2412            | -2.4                                  |
|        | 2442            | -2.2                                  |
|        | 2472            | -1.8                                  |

#### 3. Wi-Fi [5GHz/6GHz] / NB UNII/ 802.15.4ab-NB (**ANT 6**); Type: PIFA

| Band     | Frequency (MHz) | Peak Gain (Horizontal/Vertical) (dBi) |
|----------|-----------------|---------------------------------------|
| U-NII-1  | 5180            | -2.9                                  |
| U-NII-2A | 5260            | -2.0                                  |
|          | 5320            | -2.3                                  |
| U-NII-2C | 5500            | -0.8                                  |
|          | 5600            | 0.1                                   |
|          | 5700            | 0.8                                   |
| U-NII-3  | 5745            | 0.9                                   |
|          | 5785            | 1.6                                   |
|          | 5825            | 2.0                                   |
| U-NII-5  | 5955            | 2.6                                   |
|          | 6075            | 4.1                                   |
|          | 6135            | 4.1                                   |
|          | 6255            | 3.8                                   |
|          | 6375            | 3.0                                   |
| U-NII-6  | 6435            | 2.6                                   |
| U-NII-7  | 6555            | 3.0                                   |

| Band    | Frequency (MHz) | Peak Gain (Horizontal/Vertical) (dBi) |
|---------|-----------------|---------------------------------------|
|         | 6675            | 3.0                                   |
|         | 6735            | 2.0                                   |
|         | 6855            | 0.6                                   |
| U-NII-8 | 6975            | 1.8                                   |
|         | 7035            | 2.6                                   |
|         | 7115            | 1.4                                   |

4. Wi-Fi [5GHz/6GHz] / NB UNII/ 802.15.4ab-NB Antenna Gain (**ANT 5**);  
Type: PIFA

| Band     | Frequency (MHz) | Peak Gain (Horizontal/Vertical) (dBi) |
|----------|-----------------|---------------------------------------|
| U-NII-1  | 5180            | -7.8                                  |
| U-NII-2A | 5260            | -7.6                                  |
|          | 5320            | -6.4                                  |
| U-NII-2C | 5500            | -6.0                                  |
|          | 5600            | -6.7                                  |
|          | 5700            | -7.9                                  |
| U-NII-3  | 5745            | -7.4                                  |
|          | 5785            | -7.8                                  |
|          | 5825            | -6.4                                  |
| U-NII-5  | 5955            | -7.2                                  |
|          | 6075            | -6.5                                  |
|          | 6135            | -7.7                                  |
|          | 6255            | -7.3                                  |
|          | 6375            | -7.7                                  |
| U-NII-6  | 6435            | -6.5                                  |
| U-NII-7  | 6555            | -7.0                                  |
|          | 6675            | -7.3                                  |
|          | 6735            | -7.9                                  |
|          | 6855            | -9.2                                  |
| U-NII-8  | 6975            | -8.1                                  |
|          | 7035            | -7.5                                  |
|          | 7115            | -7.4                                  |