

## 2.4/5.8GHz Dual Band Flexible Antenna

### Part No:AC-Q2458N42

#### 1. Introduction

Flexible Printed Circuit Board Antennas, or FPC Antennas are flexible, low profile, highly reliable and economical antennas that are widely used in the wireless industry.

It can be used to develop various types of antennas including monopoles, dipoles and printed F antennas.

The antennas usually have a coaxial cable through which they can be connected to the required circuit. FPC antennas can be placed vertically, horizontally or co-planar to the host PCB without any major impact on performance. FPC antennas usually perform consistently when flat, on a curve or even when bent to a certain degree. This makes them ideal for devices where an SMD antenna simply will not fit on the host PCB with the required ground plane.

It can be bent so that they can be embedded inside a small device like an IoT module where circuit board space is at a premium and a surface mount antenna can not be placed.

The cable length of FPC antennas can be customized making them easy to connect to a module.



## 2. Specification

### Electrical

|                         |                        |
|-------------------------|------------------------|
| Frequency Range         | 2400-2500/5150-5800MHz |
| Gain                    | 2.5/3dBi               |
| V.S.W.R                 | ≤2.0                   |
| Maximum Input Power     | 50W                    |
| Impedance               | 50Ω                    |
| Connector               | IPEX                   |
| Cable Type              | RF 1.13                |
| Cable Length            | 100mm                  |
| Antenna Radome Material | FPC                    |

### Mechanical

|                       |               |
|-----------------------|---------------|
| Dimensions            | 25x9x0.1mm    |
| Weight                | 3g            |
| Operating Temperature | -40°C to+70°C |
| RoHS Compliant        | YES           |