

## 4G 5G LTE Internal Flexible FPC Embedded Antenna

Part No:AC-Q8049-N31

### 1. Introduction

Flexible Circuit Board (FPC) board antenna supports global 5G customers and covers global cellular bands for various 5G and older applications. The antennas are optimised for use when mounted to plastic via the supplied adhesive backing. These high-efficiency antennas ensure reliable connections for high data throughput in a variety of integration environments.

The 4G LTE FPCB antenna is a low-profile FPCB antenna with cable and IPEX connector and adhesive tape to facilitate stick-on mounting on flat surfaces

RoHS-compliant antenna is designed for use with “Penta-band” frequencies, which include AMPS from 824 to 896 MHz, GSM from 880 to 960 MHz, DCS from 1710 to 1880 MHz, PCS from 1850 to 1990 MHz, UMTS from 1710 to 2170 MHz, LTE 2500 to 2700/3400-3600 MHz, and WiFi 2.4 to 5.8GHz.

The compact 50-Ω antenna with linear polarization and an omnidirectional radiation pattern.

Widely used in the files such as cell phones, tablet PCs, smart wearable devices, smart home, IoT devices, smart cars and everything is used with a wireless connection.



## 2. Specification

### Electrical

Frequency Range	800-960/1700-2700/3400-3600/4800-4900MHz
Gain	3dBi
V.S.W.R	≤2.5
Polarization	Vertical
Maximum Input Power	5W
Impedance	50Ω
Connector	IPEX
Cable Type	1.13
Cable Length	10cm
Antenna Radome Material	FPC

### Mechanical

Dimensions	96x21x0.1mm
Weight	1g
Operating Temperature	-40°C to+70°C
RoHS Compliant	YES