

# Monopole and Dipole Antennas

This series "Rubber Duck" Monopole and Dipole Antennas provide broad coverage and different gain options. It's designed by a coaxial sleeve or steel / copper wire with an omni-directional radiation pattern. The series antennas are ideally suited for Wireless LAN AP、Wireless Video、GSM、RFID、DVB-T、WiFi、WIMAX、ISM and Hotspot applications.

## Electrical Specification

Frequency — Single / Dual / Tri Band / Quad Band  
400M~870M Hz, 900M / 1800M / 1900M Hz and 2.4G / 5G Hz systems  
Impedance — Normal 50 Ohm / 75 Ohm  
Polarization — Linear Vertical / omni-direction pattern  
Gain — 2 - 10 dBi

## Mechanical Specification

Radiator — Copper wire、Spring、Steelwire  
Connector — TNC / SMA / N / MMCX (RP Type)、I-PEX  
Working Temperature — -30°C ~ +60°C  
D-90° adjustable swivel and water proof design  
RoHS — Compliant.

## AN SERIES

AN01  
9x110



AN03  
13x142



AN03-A  
12x132~



AN05  
8x140~



AN08  
14x179~



AN09  
20x160~



AN10  
20x195~



AN11  
20x160~



AN13A  
13x225



AN13-T9  
12x192



AN15  
16x90



AN16  
17x102



AN17  
13x180



AN17-A  
13x152



AN18  
14x89~



AN19  
13x196



AN19-C  
20x175



AN19-D  
13x170



AN20  
13x193



AN22  
13x136



AN22A  
10x104



AN24  
13x131



AN25  
13x131



AN27  
6x60~



\* Main Application : ■ WLAN ■ GSM ■ DVB-T ■ ISM ■ WIMAX

\* The dimension is subject to change with different frequency and connector type request.

# Magnetic Mount & Suck Cap Base Extender Antennas

This magnetic or suck cap base antenna provides single or multi band for DVB-T, 900MHz, 1800MHz, 1900MHz, 2.4GHz, 5GHz. The compact design of this type antenna is ideal for extending the operation coverage and the magnetic and suck cap base are suitable for fixing to any flat and metal surfaces.

- DVB-T, APMS, GSM, DCS, PCS, UMTS, ISM, WLAN, Wireless Video WiFi and WIMAX applications
- 400M ~ 870M Hz, 900M / 1800M / 1900M Hz and 2.4G / 5G Hz systems
- Amplifier integrated active antenna
- High performance and compact size
- Magnetic mount or suck cap base mounting
- Fix or Tilt-Swivel flexibility, water proof application design
- Cable and connector customisable
- RoHS Compliant



## AB SERIES



**AB02**  
35x105



**AB03**  
48x114



**AB04-Y**  
85x160~



**AB04-LH**  
85x227



**AB25-Y**  
30x163~



**AB26-Y**  
30x156~



**AB26-R**  
30x123~



**AB27-C**  
50x145



**AB27-F**  
50x169



**AB27-H**  
50x223



**AB27-K**  
50x223



**AB27-W**  
50x131



**AB28**  
27x144~



**AB29-Y**  
49x163~



**AB29-AY**  
64x167~



**AB29-F**  
49x182



**AB36-G**  
49x133



**AB36-AG**  
64x140



**AB36-W**  
50x105



**AB37-H**  
60x223



**AB37-I**  
60x183



**AB37-T**  
60x322



**AB38-W**  
40x97



**AB39**  
40x132

\* Main Application : ■ WLAN ■ GSM ■ DVB-T ■ ISM ■ WIMAX

\* The dimension is subject to change with different frequency and connector type request.

# Patch Internal Antennas

## Notebook PC / PDA / Mobile Phone Antennas and ISM portable equipment antennas

For Mobile Phone & Notebook PC WLAN / PDA and ISM applications, this patch antenna is designed by metal stamping or integrated on the plastic frame with PIFA radiation pattern. These miniature size antennas are mostly suited for the exquisite wireless products of compact & miniature equipment including the mobile phone, WLAN, Bluetooth, security or audio and video applications.

### Mobile Phone



IM0001  
GSM 900/1800MHz



IM0002  
GSM 900/1800MHz



IM0008  
CDMA 800/1900MHz



IM0008-G  
GSM 900/1800MHz



IM0012-G  
GSM 900/1800MHz



IM0051-G  
GSM 900/1800MHz



IM0069-C  
CDMA 800/1900MHz



IM0069-G  
GSM 900/1800MHz



IM00201  
GSM 900/1900MHz



IM00202  
GSM 800/1800MHz

### Tablet / Laptop Mobile Internet Device



NB0004-A  
2.4/5.8GHz



NB0006-A  
2.4/5.8GHz



NB0045-L  
2.4GHz



NB0046-A  
2.4/5.8GHz



NB0063-A  
2.4/5.8GHz



NB0140-W  
3GHz



NB0141-P  
GPS 1900MHz



NB0141-W  
3GHz



NB0144  
2.4GHz



NB0153  
2.4GHz



NB0175-C1  
2.4GHz



NB0178-A  
2.4GHz



NB0179-A  
2.4GHz



NB0181-G  
GSM 900-1800MHz



NB0191-A  
2.4GHz



NB0200-A  
3GHz



NB0209-A  
900MHz



NB0210-A  
2.4GHz



NB0211  
UHF 433MHz



NB0215-G  
3GHz



NB0216-A  
2.4GHz



NB0218-A  
2.4GHz



NB0219-A  
2.4GHz



NB0220-A  
2.4GHz

\* This PIFA type internal antenna is designed mostly custom made for the particular product application.

## External Magnetic Mount and Suck Cap Antenna Bases

The various options of the antenna base are well suited for desktop for fixing to any flat and metal surfaces. The antenna base provides the different mating interface of RF connectors or metal studs to fit any external antenna connector type with the different cable types to extending the wireless coverage. The magnetic or suck cap base are the options for more flexible fixing applications.

### Antenna Bases



Dimension : DxH(mm)

## GPS Antennas

### External GPS Tracking & Location Antenna with Multi-Band + GPS Integrated design

AG Series GPS Antenna is the compact design with excellent Signal Amplification compatible with almost every GPS receiver model and provides an excellent alternative for a vast range of GPS Mobile applications including AVL, Vehicle Navigation, Aviation.

#### Connector Type Options to GPS Antenna



† Connector customizable



• GPS + GSM (Multi-Band) Combination Antenna Available.

Dimension : DxH(mm)

# Flat Patch, Ceiling Mount & Rooftop Omni-directional High Gain Antennas

High Performance and rugged industrial grade design antennas are ideal for indoor and outdoor use. The antenna of different type options can be installed for either vertical or horizontal polarization.

- WLAN, Hotspot, GSM, ISM and MIMO for Indoor/outdoor multipoint and extending applications
- Outdoor, Marine and Vehicle Grade durable UV-stable housing or fiberglass radome weather-proof
- Providing broad coverage and different gain options, high performance and compact size
- GSM 850M / 900M / 1800M / 1900M / 2100M Hz & WLAN 2.4G / 5G Hz and Multi-band systems
- ISM Band 433M / 450M / 868M-870M / 915M / 928M Hz, Custom antennas can be designed on request
- Integral N-Female or TNC connector or extension cable end, cable & connector customisable
- RoHS Compliant

## Flat Patch



DF01  
104x58x28



DF21  
270x140x37



DF31  
280x260x37



DF41  
350x260x37



DF51  
397x352x37



DF21-C  
Coax Lead Type



DF10  
135x125x35



DF15  
221x186x35



DF20  
223x196x50



DF30  
315x100x35



DF40  
331x186x35



DF50  
386x356x35

## Ceiling Mount



DR12  
120x53



DR16  
165x100



DR13  
135x125

## Marine & Vehicle



DR50  
Multi-Band GPS+GSM



DR60  
Vehicle GPS



DR80  
Marine GPS



DR13-A  
Marine Multi-Band



DR70  
Marine GPS

## Omni Outdoor Antennas



DS02  
20 x 287



DS02A  
20 x 287



DS20



DS10  
High Gain



DS10  
35 x 400~



DS10-S  
Rooftop Stand Type



DS10-C  
Coax Lead Type



DS11