



**Antennas**  
**RF Coaxial Connector**  
**Coaxial Cable Assembly**



*Invax offers a full range of antennas and RF connectors  
for the extreme communication reliability*

# Dipole Antennas

This series "Rubber Duck" Dipole Antenna provides broad coverage and different gain options. It's designed by a coaxial sleeve with an omni-directional radiation pattern. The series Antenna are ideally suited for Wireless LAN AP · Wireless Video · GSM · RFID · DVB-T · WiFi · WiMAX application.

## Electrical Specification

Frequency – Single / Dual / Tri Band / WiFi / WiMAX  
 Impedance – Normal 50 Ohm / 75 Ohm  
 Polarization – Linear Vertical / omni-direction pattern  
 Gain – 2-10dBi

## Mechanical Specification

Radiator – Copper wire · Spring · Steelwire  
 Connector – TNC · SMA · N · MMCX · IPEX (RP Type)  
 Temperature - -30°C ~ +60°C  
 D-90° adjustable swivel design  
 RoHS – Compliant.



<b>AN18</b>  14x89	<b>AN19</b>  13x196	<b>AN19-C</b>  20x175	<b>AN20</b>  13x193	<b>AN22</b>  13x136
<b>AN28</b>  14x83	<b>AN28-A</b>  12x150	<b>AN28-H</b>  15x65	<b>AN30</b>  6x64	<b>AN31</b>  11x128
<b>AN34-L</b>  21x178	<b>AN35</b>  9x25	<b>AN37</b>  10x104	<b>AN38</b>  10x112	<b>AN46</b>  9x75
<b>AN55</b>  10x110	<b>AN56</b>  10x112	<b>AN57</b>  9x109	<b>AN57-B</b>  10x76	<b>AN57-BN</b>  10x115
<b>AN58-A</b>  10x130	<b>AN58-B</b>  10x102	<b>AN58-P</b>  10x135	<b>AN59</b>  13x394	<b>AN60</b>  13x294
<b>AN65-A</b>  13x138	<b>AN68-A</b>  95x134	<b>AN69-A</b>  108x135	<b>AN70</b>  14x202	<b>AN72</b>  7x173

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

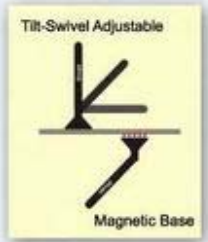


Dimension : DxL(mm)

# Magnetic & Suck Cap Base Extender Antennas

This magnetic 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, GSM, ISM, WLAN, Wireless Video WiFi and WiMAX applications
- 400MHz~870MHz, 900/1800/1900MHz and 2.4 / 5GHz systems
- Amplifier integrated active antenna
- High performance and compact size
- Magnetic or suck cap base mounting
- Fix or Tilt-Swivel flexibility
- RoHS Compliant



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



AB02  
35x105



AB04-Y  
85x160



AB04-H  
85x227



AB25-Y  
30x163



AB26-Y  
30x156



AB26-R  
30x123



AB27-C  
50x145



AB36-G  
49x133



AB36-AG  
64x140



AB36-W  
50x105



AB39  
40x132



AB39-A  
46x143



AB40-A  
62x115



AB40-B  
48x95



AB40-C  
48x100



AB49-BY  
47x230



AB69-A  
95x188



AB69-H  
95x278



AB70  
9x45



AB70-A  
50x218



AB70-B  
50x218



AB70-C  
62x212



AB82-F  
54x90



AB82-G  
60x70



AB83-H  
43x140



AB85-T  
85x296



AB86-H  
85x205



AB87  
28x138



AB87-A  
28x116



AB87-B  
42x148



AB88-I  
45x136



AB88-J  
45x121



AB88-R  
45x150



AB88-W  
45x107



AB91-K  
83x228



AB91-W  
63x135



AB91-Z  
83x135



AB92-H  
83x226



AB94-T  
60x337



AB94-Z  
60x147



AB97  
56x141



AB98  
34x150



AB98-A  
46x171



AB99-Z  
80x97



AB99-H  
80 x233



AB99-W  
80x142

## Magnetic and Suck Cap Antenna Base

The various options of the antenna base are well suited for desktop or fixing to any flat and metal surfaces. The antenna base provides the different mating interface of RF connectors or metal studs to fit any 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 Base



BS04  
77x32



BS25  
30x20



BS26  
30x20



BS27  
50x27



BS29  
49x41



BS36  
48x17



BS42  
88x44



BS42-A  
88x60



BS42-M  
90x30



BS43  
68x34



BS49  
34x28



BS69  
95x88



BS86  
85x25



BS88  
48x20



BS91  
83x30



BS94  
60x43



BS99  
85x40

### Extendable Antennas



**AN44 series – Antenna with coaxial connector**



**AN45 series – Antenna with metal stud**

## Patch Internal Antennas

### Mobile Phone Antennas & Notebook PC Antennas

For Mobile Phone & Notebook PC WLAN 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 including the mobile phone, WLAN, Bluetooth or video applications.



#### Mobile Phone



IM0001



IM0002



IM0008



IM0006-G



IM0012-G



IM0051-G



IM0069-C



IM0069-G



NB0004-A01



NB0006-A01



NB0045-L01



NB0046-A01



NB0063-A01

#### Notebook PIFA

■ This PIFA antenna is designed mostly custom made for the particular product application.

## GPS Antenna

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

AG Serie 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.

<p><b>AG01</b> (29x33x14)</p> 	<p><b>AG02</b> (43x35x14)</p> 	<p><b>AG03</b> (48x39x14)</p> 	<p>Connector Types :</p> <ul style="list-style-type: none"> <li>SMA</li> <li>SMB</li> <li>SMB90°</li> <li>SMC</li> <li>MCX</li> <li>MMCX</li> <li>MMCX90°</li> <li>FME</li> <li>Fakra</li> <li>TNC</li> <li>BNC</li> <li>Mini-UHF</li> <li>MC-card</li> </ul>
<p><b>AG04</b> (85x77x32)</p> 	<p><b>AG21</b> (72x82x13)</p> 	<p><b>AG31</b> (45x15)</p> 	
<p><b>AG32</b> (70x14)</p> 	<p><b>AG32-A</b> (70x14)</p> 	<p><b>AG35</b> (70x14)</p> 	
<p><b>AG36</b> (45x16)</p> 	<p><b>AG41</b> (87x35x13)</p> 	<p><b>AG43</b> (92x83x84)</p> 	

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

High Performance and rugged industrial grade design antenna 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
- 900M/1800M/1900MHz/2.4G/5GHz and Multi-band systems
- Integral N-Female or TNC connector or extension cable end
- RoHS Compliant

## Flat Patch



DF21  
270x140x37



DF31  
280x260x37



DF41  
350x260x37



DF51  
397x352x37



DF21-C  
Coax Lead Type



DF10  
135X125X35



DF15  
221x186x35



DF20  
223x195x50



DF30  
315X100x35



DF40  
331x186x35



DF50  
386X356x35

## Ceiling Mount



DR12  
120X53



DR16  
165X100



DR13  
135x125

## Marine & Vehicle



DR50  
Multiband GPS+GSM



DR60  
Vehicle GPS



DR80  
Marine GPS



DR13-A  
Marine Multiband



DR70  
Marine GPS

## Omni Outdoor Antennas



DS10



DS20



DS11



DS10-S  
Rooftop Stand Type



DS10-C  
Coax Lead Type



# RF Cable Assemblies

- RF & Mini Coaxial Cable Assembly  
OD: 0.81 / 0.98 / 1.13 / 1.32 / 1.37 / 1.48mm
- RF Flexible & Semi-Rigid Cable Assembly
- RG / LMR low loss Coaxial Assembly
- Pigtail Micro Coaxial Cable Assembly



 IP-901	 MMCX 002-N	 MMCX 107-N
 MMCX 040-N	 MCX 506-N	 MCX 304-N
 SMA 363-N	 SMA 378-N	 SMA 669-N
 SMB 391-N	 SMB 040-N	 SMB 033-N
 SMB 041-N	 SMB 347-N	 BNC 101-N
 BNC 109-N	 F 037-N	 TNC 015-N
 TNC 211-N	 TNC 301-N	 TNC 083-N
 N 601-N	 N 600-N	 N 010-N
 N 002-N	 N 518-N	 N 519-N5



# RF Coaxial Connectors

SMA SMB SMS SMC SSMB MCX  
 TNC FME UHF BNC RF-sw 7/16  
 MMCX Mini-UHF PAL(IEC) FAKRA F N



Connector Types	Working Frequency
SMA	18GHz
SMB	4 GHz
SMC	10 GHz
SMS	4 GHz
SSMB	12.4 GHz
SMM	6 GHz
MCX	6 GHz
MMCX	6 GHz
TNC	4 GHz
FME	3 GHz
BNC	4 GHz
7/16	7.5 GHz
N	18 GHz

## RF-Switch



## Lightning Surge Protector

N-Female to N-Female Bulkhead  
 N-Male to N-Female Bulkhead  
 TNC-Male to TNC-Female Bulkhead  
 Suitable for IEEE 802.11b and 802.11g WLAN  
 ISM, MMDS, Cellular and PCS applications



## MCX



## PAL



## TNC



## SMB



## BNC



• Switch Function Option



## 7/16



## F



## SMA



## N



## MMCX



## Adaptors

