



# Antenna

A range of high quality antennae designed and manufactured for operation specifically with Low power short range telemetry systems. Using one of the following antennae will give optimum range and reliability to your application.



## 'Stubby' Helical Antenna

- $\frac{1}{4}$  Wavelength **Helical** Antenna
- Rugged Plastic Finish, Flexible Antenna
- Available As BNC, 4BA, M4 Screw Fixing

## $\frac{1}{4}$ Wave Flexible Antenna

- Standard  $\frac{1}{4}$  Wavelength **Whip** Antenna
- Rugged Plastic Finish. Flexible Antenna
- Available as BNC, 4BA, M4 Screw Fixing
- Available as Straight or Right Angle



## +3db GAIN ANTENNA

- +3db GAIN  $\frac{5}{8}$  Wavelength Whip Antenna
- Integral Wall Mounting Bracket
- Supplied With 2 Metres Coax Cable & BNC (50 $\Omega$ )

Note: In Order To Comply With The UK DTI Regulations, A Gain Antenna Must Not Be Used On Any Transmitting Device.



## Puk Antenna

- Panel Mounting **Puk** Antenna
- Rugged Plastic Finish
- Available with BNC, SMA Fixings



## Dipole Antenna

- Flat Form **Dipole** Antenna
- Tuned for european GSM frequencies
- Rugged Plastic Finish
- Self Adhesive Pad
- Available with SMA Fixing



## GPS Antenna

- Compact **Puck Style** Antenna
- Tuned to GPS frequency
- Rugged Plastic Finish
- Magnetic mounting base
- Active gain: +27dB
- Voltage: 3.3 – 5.5V
- Max current: 25mA
- Available with SMA/HFL or MMCX Fixing





# Antenna

## ¼ Wave Whip Antenna Dimensions (mm)

	M4		4BA		BNC		BNC 90°	
	Length	Dia	Length	Dia	Dia	Length	Dia	Length
315MHz	*	*	231	18	13	250		
433MHz	162.5	13	160.5	17	13	172	*	*
458MHz	-	-	-	16	-	164		
868MHz	97	13	-	17.5	-	81		
916MHz	-	-	83	-	13	-		

## Helical / Compressed Helical / Gain Antenna Dimensions (mm)

	Helical M4		Helical 4BA		Helical BNC		Comp. Helical M4		Gain	
	Length	Dia	Length	Dia	Length	Dia	Length	Dia	Length	Dia
173MHz	-	-	*	*	-	-	-	-	*	*
315MHz	-	-	72	13	105	17	-	-	*	*
433MHz	55	14	55.5	13	84	17	35	14	490	14
458MHz	-	-	-	-	81	17	-	-	-	-
868MHz	-	-	-	-	-	-	-	-	-	-
916MHz	-	-	83	13	*	*	-	-	-	-

## Puk / Dipole Antenna Dimensions (mm)

	Puk			Dipole			
	Height	Dia	Cable Length	Length	Width	Height	Cable Length
433MHz	52	47	500				
900/1800 MHz				112	60	10	175

## GPS Antenna Dimensions (mm)

	GPS - SMA / HFL			GPS - MMCX		
	Height	Dia	Cable Length	Height	Dia	Cable Length
1575 MHz	10	56	5000	14.5	49	5000



# Antenna

## Part Numbers

<b>1/4 Wave Whip</b>					
Fixing	315MHz	433MHz	458MHz	868MHz	915Hz
<b>M4</b>	-	FLEXI-M4-433	-	FLEXI-M4-868	-
<b>4BA</b>	FLEXI-4BA-315	FLEXI-4BA-433	-	-	FLEXI-4BA-916
<b>BNC</b>	-	FLEXI-BNC-433	FLEXI-BNC-458	FLEXI-BNC-868	-
<b>BNC 90°</b>		FLEXI-BNC90-433			-

<b>Helical</b>					
Fixing	173MHz	315MHz	433MHz	458MHz	915Hz
<b>M4</b>	-	-	PU-M4-433	-	-
<b>4BA</b>	PH-4BA-173	PU-4BA-315	PU-4BA-433	-	PU-4BA-916
<b>BNC</b>	-	PU-BNC-315	PU-BNC-433	PU-BNC-458	-

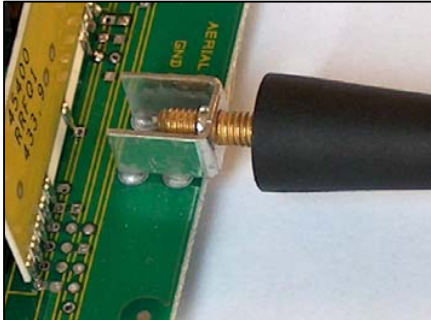
<b>Compressed Helical</b>					
Fixing	173MHz	433MHz	458MHz	868MHz	915Hz
<b>M4</b>	-	PHC-M4-433	-	-	-

<b>Gain Antenna</b>					
Fixing	173MHz	433MHz	458MHz	868MHz	915Hz
<b>Mag Mount</b>	SR150M/TS	-	-	-	-
<b>Wall Mounting Bracket (incl)</b>	-	MB450-RFS433	-	-	-
<b>YAGI</b>	-	-	YU8-458	-	-

<b>Puk / Dipole / GPS Antenna</b>			
Fixing	433MHz	900/1800 MHz	1575.42 MHz
<b>BNC</b>	ANTPUK1-433	-	-
<b>SMA</b>	ANTPUK1-433-SMA	ANTGSM-ADH-RASMA	GPSANT1
<b>HFL</b>	-	-	GPSANT1
<b>MMCX</b>	-	-	GPSANT-MMCX

## SCTM4RA

The SCRTM4RA is a PCB mounting terminal providing a simple method of attaching a low cost 4mm Screw thread antenna to a PCB.



### PCB Layout

