

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 (50Ω)

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

Antenna



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

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

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

Compressed Helical					
Fixing	173MHz	433MHz	458MHz	868MHz	915Hz
M4	-	PHC-M4-433	-	-	-

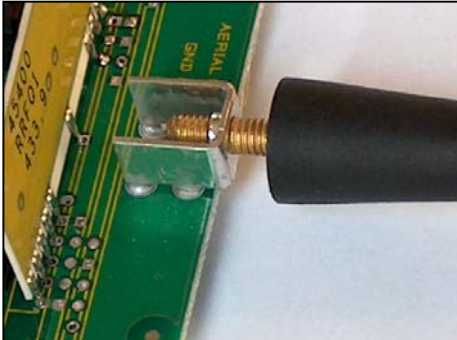
Gain Antenna					
Fixing	173MHz	433MHz	458MHz	868MHz	915Hz
Mag Mount	SR150M/TS	-	-	-	-
Wall Mounting Bracket (incl)	-	MB450-RFS433	-	-	-
YAGI	-	-	YU8-458	-	-

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

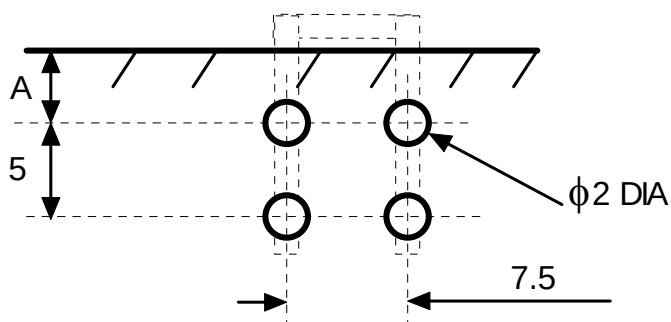
Antenna

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



All dimensions in mm

A = 5,1mm excluding screw head, this also depends on how far the screw terminal is from the outside surface of the box its fitted into.