

# 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.

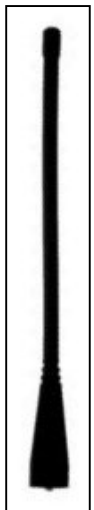


## 'Stubby' Helical Antenna

- $\frac{1}{4}$  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><sup>1</sup>/<sub>4</sub> Wave Whip</b> |               |                 |               |               |               |
|--|---------------|-----------------|---------------|---------------|---------------|
| 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 |               |               | -             |

| <b>Helical</b> |            |            |            |            |            |
|----------------|------------|------------|------------|------------|------------|
| 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 | -          |

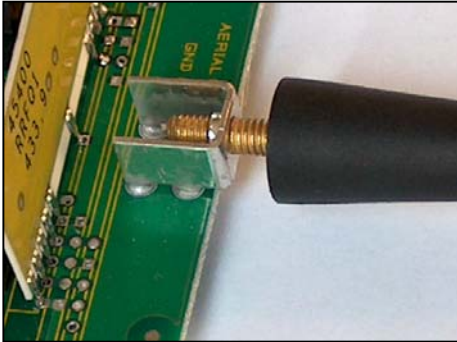
| <b>Compressed Helical</b> |        |            |        |        |       |
|---------------------------|--------|------------|--------|--------|-------|
| Fixing                    | 173MHz | 433MHz     | 458MHz | 868MHz | 915Hz |
| M4                        | -      | PHC-M4-433 | -      | -    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

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

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

