

## Section 1

### BASE STATION ANTENNAS

Updated 14 February 2011

### UHF Sidemount Dipoles Mast Mount and Flange Mount

Frequency  
600 – 960 MHz

Bandwidth  
See Table



These sidemount dipoles provide genuine broadband coverage in the UHF frequency range 600 to 960 MHz.

Traditionally folded dipoles are mounted so as to use the mast as a reflector. Pattern formation and gain can be varied by altering dipole to mast spacing.

Both gain and power can be increased further by mounting dipoles in stack array formations.

This range of dipoles are constructed entirely from stainless steel to ensure a long term service life in the harshest weather conditions and environments. All parts are welded.

- The **B65** and **B88** models are mounted to a mast using the **RB8** right-angle clamp. These dipoles are held in stock and the clamp is available to order seperately.
- Both **B65F** and **B88F** are fitted with a PVC Flange designed for mounting to a wall, the ceiling or floor using 2 screws or bolts. The cable side exits from the PVC Flange. These models are built to order.

SPECIFICATIONS	B65 and B65F	B88 and B88F
Construction	Stainless Steel	Stainless Steel
Frequency Range	600 to 820 MHz Full Band	800 to 960 MHz Full Band
Tuning	Factory	Factory
Return Loss, VSWR	Better than -15 dB, <1.5:1 across band	Better than -15 dB, <1.5:1 across band
Gain	Nominal 0 dBd, or approximately 2.3 dBd when mounted against metal mast	
Maximum Power	25 Watts	25 Watts
Impedance (Nom.)	50 Ohms	50 Ohms
E and H Plane	The radiation pattern varies according to the mounting arrangement	
Polarisation	Mount Horizontal or Vertical as desired	
DC Grounding	Yes	Yes
Cable Tail	60 cm of RG58 low loss cable	
Connector	N-Female fitted	N-Female fitted
Overall Length	35 cm	35 cm
Dipole Diameter	19 cm	15 cm
Mount Tube Length	30 cm	30 cm
Mount Tube Diameter	25 mm	25 mm
Weight	420 grams	400 grams
Mounting <b>B65 and B88</b>	1 x <b>RB8</b> right-angle mast clamp is recommended and available to order separately.	
Mounting <b>B65F and B88F</b>	Come fitted with a PVC Flange. Mount to a wall, the ceiling or floor using 2 screws or bolts.	



The **RB8** galvanised steel right-angle clamp is recommended for mounting the **B65** or **B88** models to a mast between 20 mm and 50 mm in diameter.

Order a clamp separately.