

Section 1

BASE STATION ANTENNAS

Updated 14 February 2011

G35 UHF Omnidirectional Collinear Antenna

Frequency
300 – 400 MHz

Bandwidth
Any 5%



The G35 omnidirectional collinear base station antenna is designed for commercial, paging, trunking, data and general communication systems operating within the UHF frequency range 300 to 400 MHz.

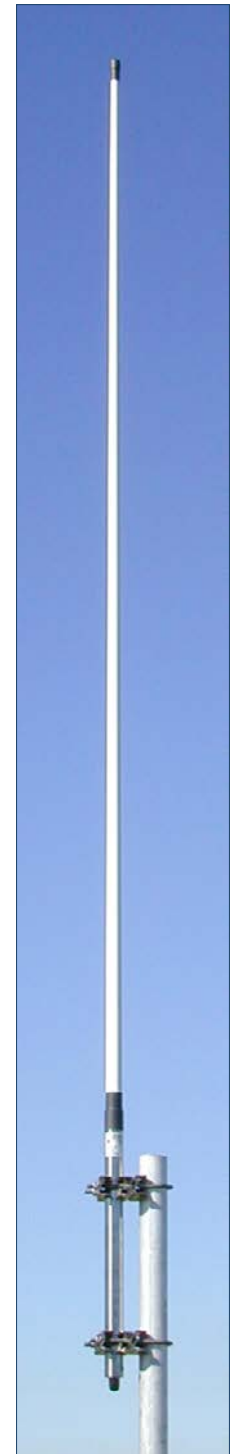
Offering a 5% bandwidth and 6 dBd gain, this collinear is built to full commercial standards. The radiating elements are enclosed within a robust tapered fibreglass radome ensuring reliable performance and a long service life in the harshest of weather conditions. Wind loading is minimal.

Specify your transmit and receive frequencies within the 5% bandwidth limitation when ordering and your collinear antenna will be manufactured and tuned accordingly at better than 1.5:1 VSWR.

An N-Female connector rated for up to 250 watts power is located at the base of the aluminium mount tube. Clients who require a higher power rating should contact ZCG Scalar for advice.

Mast mounting clamps, feeder cable, connectors and other accessories are available separately to complete the installation.

SPECIFICATIONS	G35
Construction	Tapered white fibreglass radome, aluminium internals and aluminium mount tube
Frequency Range	Suitable for use in the UHF frequency range 300 to 400 MHz
Maximum Bandwidth	Any 5%. Specify your Transmit and Receive frequencies in writing when ordering
Return Loss, VSWR	Better than -15 dB, < 1.5:1 across the bandwidth specified
Tuning	Factory
Gain	6 dBd
Maximum Power	250 Watts
Impedance (Nom.)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
E Plane	16°
H Plane	360° omnidirectional, ± 0.5 dBd
Cable Tail	None
Connector	N-Female connector located at the base of the mount tube
Height at lowest frequency 300 MHz	2.9 metres <i>At higher frequencies the collinear antenna height reduces slightly</i>
Weight (Bare)	3.0 kg
Projected Area	0.105 m ²
Wind Load at 160 kph	12.74 kg, 0.125 kN
Mount Tube	40 mm diameter x 500 mm, aluminium
Mast Mount Clamps recommended	2 x UAM180L



UAM180L clamps are recommended for mounting the G35 collinear antenna to a round mast between 40 mm and 75 mm in diameter.

These clamps are galvanised steel designed for heavy duty service.