

## Section 5

### CELLULAR MOBILE PHONE ANTENNAS

Updated 18 February 2011

#### CM Series MAX-GAIN NEXT G or GSM Mast Mount Antennas

Frequency  
**825 – 960 MHz**

Bandwidth  
**NEXT G or GSM**



With 8.1 dBi gain, these mast mount models offer the maximum gain and reception range practical in a broadband omnidirectional cellular mobile phone base station antenna.

The white fibreglass radome and stainless steel mount tube stands 2.4 metres tall. The antenna is matched internally by a unique transforming printed circuit board.

The N-Female connector located at the base of the mount tube is rated for up to 20 watts input power.

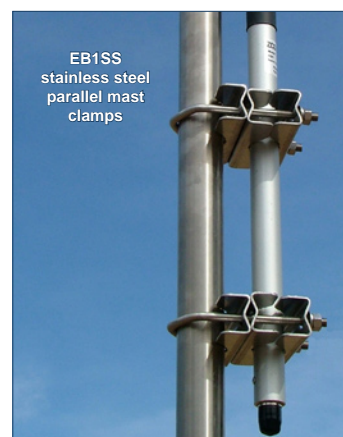
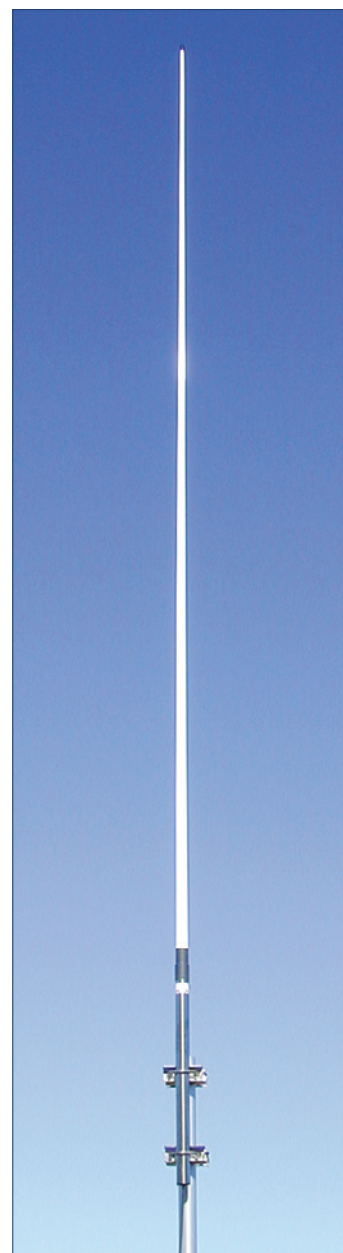
➤ **CM1600AM** is factory tuned to cover the NEXT G network.

➤ **CMG1600AM** is for the GSM network.

All components used are of the highest quality to ensure long term survival in the harshest weather conditions and environments. These antennas will deliver reliable performance for many years.

Mounting clamps, feeder cable, connectors, cable ties and tape are available separately to complete the installation.

SPECIFICATIONS	CM1600AM	CMG1600AM
<b>Construction</b>	Single piece white fibreglass tapered radome, transforming printed circuit board, stainless steel mount tube	
	Blue Cap	Red Cap
<b>Cellular Mobile Phone Network Coverage</b>	<b>NEXT G</b> 825 to 890 MHz	<b>GSM</b> 890 to 960 MHz
<b>VSWR</b>	-10dB	-10dB
<b>Tuning</b>	Factory	Factory
<b>Gain</b>	<b>8.1 dBi</b>	<b>8.1 dBi</b>
<b>Max Input Power</b>	20 Watts	20 Watts
<b>Impedance</b>	50 Ohms	50 Ohms
<b>DC Grounded</b>	Yes	Yes
<b>Polarisation</b>	Vertical	Vertical
<b>E-Plane</b>	13°	13°
<b>H-Plane</b>	360° Omnidirectional	360° Omnidirectional
<b>Connector</b>	N-Female located at base of mount tube	
<b>Height</b>	2.4 metres	2.4 metres
<b>Weight</b>	0.7 kg	0.7 kg
<b>Mount Tube</b>	420 mm long x 20 mm diameter	
<b>MAST Mounting Clamps (not supplied)</b>	2 x <b>EB1SS</b> stainless steel parallel clamps recommended. Suit round mast between 20 mm and 50 mm in diameter.	



EB1SS stainless steel parallel mast clamps