

Section 5

**CELLULAR MOBILE  
PHONE ANTENNAS**

Updated 18 February 2011

**TC1600 MAX-GAIN  
NEXT G or GSM  
Vehicle Bull Bar Mount**

Frequency  
**825 – 960 MHz**

Bandwidth  
**NEXT G or GSM**



With 8.1 dBi gain, these TC1600 models offer the maximum gain and reception range practical in a broadband vehicle mounted cellular mobile phone antenna.

Available with either a white or pink fibreglass radome, the antenna stands 2.2 metres tall and, for a vehicle, the Bull Bar is the mounting position recommended. Due to size, mounting to the vehicle guard, boot or mirror is not practical.

- **TC1600A** is tuned for the **NEXT G** network.
- **TC1600D** is for the **GSM** network.

Matched internally by a unique transforming printed circuit board, these antennas are ground independent and do not require any metal ground plane to operate effectively.

The antenna is firmly secured into any 12.7 mm (1/2") minimum diameter hole using the bolt and spring washer provided. If required, the **BBM-SS** stainless steel bull bar bracket is available to order separately. The heavy duty stainless steel parallel spring dampens vibrations while travelling. 5 metres of RG58 low loss cable side-exits from the chromed brass ferrule. An FME female crimp connector is fitted to the cable.

These mobile phone antennas are identical in appearance to:

- **TCMA675**, UHF CB Radio 477 MHz.
- **TC1100**, AM/FM Radio Receive.

SPECIFICATIONS	TC1600A	TC1600A-P	TC1600D	TC1600D-P
Radome Colour	White	Pink	White	Pink
Construction	Tapered fibreglass radome, chrome plated brass ferrule, brass adaptor, stainless steel parallel spring			
Cellular Mobile Phone Network Coverage	<b>NEXT G</b> 825 to 890 MHz		<b>GSM</b> 890 to 960 MHz	
VSWR	Full band at <1.5:1		Full band at <1.5:1	
Tuning	Factory		Factory	
Gain	<b>8.1 dBi</b>		<b>8.1 dBi</b>	
Maximum Input Power	30 Watts		30 Watts	
Impedance	50 Ohms		50 Ohms	
Polarisation	Vertical		Vertical	
H-Plane	360° Omnidirectional		360° Omnidirectional	
E-Plane	13°		13°	
Cable	5 metres of RG58 Low Loss cable side exits from the chrome plated brass mount ferrule			
Connector	FME Female crimp connector fitted to the cable			
Height	2.2 metres		2.2 metres	
Weight	1.5 kg		1.5 kg	
Mounting	Secure into any 12.7 mm (1/2") minimum diameter hole using the bolt and spring washer supplied			
Recommended Mounting Position	Vehicle bull bar. If required, the <b>BBM-SS</b> stainless steel mounting bracket is available separately.			

The antenna top whip only without any barrel spring is available to order separately.

The antenna top may be used to mount in locations other than on a vehicle, or to replace a damaged radome.

Contact our Consultants for further advice.

