

Section 4a

**MOBILE ANTENNAS**

Updated 16 February 2011

**CT400 Series  
Low Profile and Rugged  
UHF Antennas**

**Frequency**  
400 - 530 MHz

**Bandwidth**  
Select from Table



The low profile and rugged CT400 series of UHF mobile antennas are an ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism.

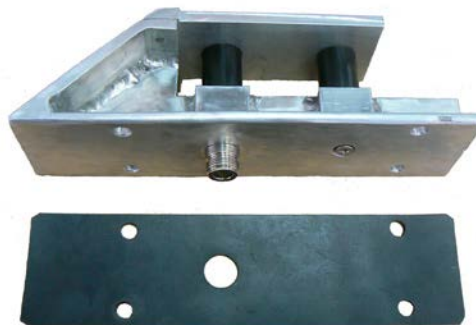
Constructed from aluminium and delrin with a rubber mounting gasket, the antenna measures just 210 mm long, 60 mm wide and 60 mm high. It mounts to any flat metal surface by drilling five holes; four for bolts and one larger for the N-Female connector.

The metal surface acts as a ground plane and the antenna will produce a near omnidirectional radiation pattern with 2.1 dBi gain.

The N-Female connector protrudes through the metal surface to allow your feeder cable connected from underneath to be concealed and protected from damage. The thick rubber gasket provides a waterproof seal.

Typical applications suited for these low profile antennas include :

- ✓ Trains
- ✓ Buses
- ✓ Forklifts
- ✓ Tractors
- ✓ Forestry Vehicles
- ✓ Logging Trucks
- ✓ Police
- ✓ Ambulance
- ✓ Fire Brigade
- ✓ Emergency Services
- ✓ Security Services
- ✓ Mining



SPECIFICATIONS	CT400 Series
Construction	Aluminium and delrin with rubber sealing gasket
Frequency	UHF 400 to 530 MHz
Bandwidth :	400 to 420 MHz
Select from these fixed frequency ranges	420 to 440 MHz 440 to 470 MHz 470 to 500 MHz 500 to 530 MHz
VSWR	< 1.5:1 across the bandwidth selected
Tuning	Factory
Nominal Gain	2.1 dBi
Maximum Power	100 Watts
Impedance	50 Ohms
Polarisation	Vertical
E-Plane	Same as a normal 1/4 wave whip
H-Plane	Near 360° omnidirectional
Connector	N-Female
Dimensions	210 mm long x 60 mm wide x 60 mm high
Weight	530 grams
Mounting	Use rubber sealing gasket as a template to mark hole positions for mounting bolt holes and N-Type connector clearance hole
Minimum Ground Plane	1.2 metres square
Contents of Installation Kit supplied	1 x CT400 Low Profile UHF Mobile Antenna 1 x Rubber Sealing Gasket 4 x M6 Stainless Steel Bolts, Nuts and Spring Washers 8 x M6 Stainless Steel Washers

