

Antenna Selection

Why is the antenna important?

The antenna is a device for transmitting and/or receiving signals - the eyes and ears of your communication system.

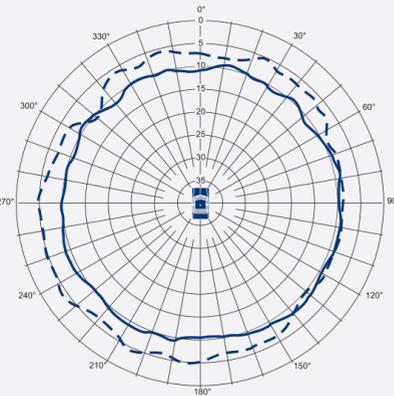
A good antenna is designed to be "in-tune" to the signal you are seeking - your phone or radio "sees" the signal and you hear a clear conversation. Use a poor antenna and you simply cannot communicate effectively.

Antenna gain and radiation patterns

Mobile antennas should radiate in a symmetrical pattern 360° around the antenna.

As gain is increased, the radiation gets compressed into a thinner pattern and reaches out further to the sides. The more gain an antenna has the thinner the pattern becomes and the further the signal can travel or reach. However a thinner radiation pattern may prevent strong signal reception when driving through hills and valleys or amongst built up areas such as city centres where base stations tend to be located on top of buildings.

Another thing to consider is whether the antenna is ground plane independent or not. Mounting an antenna that isn't designed to work without a ground plane anywhere but in the middle of your cars roof will distort the radiation pattern so you no longer get a nice 360° radiation patterns resulting in dropped calls.



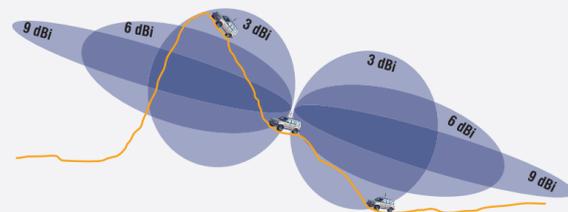
So check the following with your dealer:

1. Will most of my use be in the city or travelling through hills and valleys?

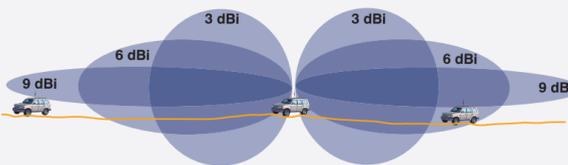
If so choose a lower gain antenna. If most of your use will be in relatively flat terrain then a higher gain option may suit your needs.

2. Is the antenna ground independent?

If not, are you willing to mount it in the middle of the roof of your vehicle?



- Lower gain in hilly terrain areas will produce greater coverage



- Higher gain in flat terrain will give better coverage

For more information contact 1300 000 734 or rfi.com.au

YOUR NEAREST DEALER

THANK YOU
FOR
CHOOSING US



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UHF-CB Antennas

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RFI Technology Solutions

QUALITY · DURABILITY · RELIABILITY



TECHNOLOGY & PERFORMANCE

With state of the art manufacturing facilities in Victoria and South Australia, RFI Technology Solutions (RFI) delivers an extensive range of high-performance antennas. Innovative patented designs like Meander®, Mopole®, Quadrant® and Quintet® make RFI the trusted industry leader.



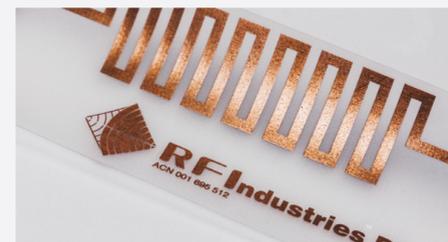
USED BY EMERGENCY SERVICES

RFI antennas are used by emergency, defence and public safety networks across Australia and the globe. If a situation should ever turn critical, you can count on RFI antennas for the best in-class performance, quality and reliability.



THE TRUSTED BRAND

Since 1979, RFI has designed, developed and manufactured high performance antennas. Being the trusted brand of choice, all antennas are critically tested at the RFI testing facility in Victoria to ensure they meet capability and quality standards every time.



Meander® Flex PCB

The secret to our strong performance lies in the patented Meander® radiating elements. These Meander® flexible PCB's exhibit extraordinary consistency in gain, coverage pattern and bandwidth.



Quick Fit Removable

Q-Fit® is a removable whip system designed for ease of removal for switching antennas to suit use or in low height environments such as carparks, car washes or city use.



RFI's City/Country Pack includes:

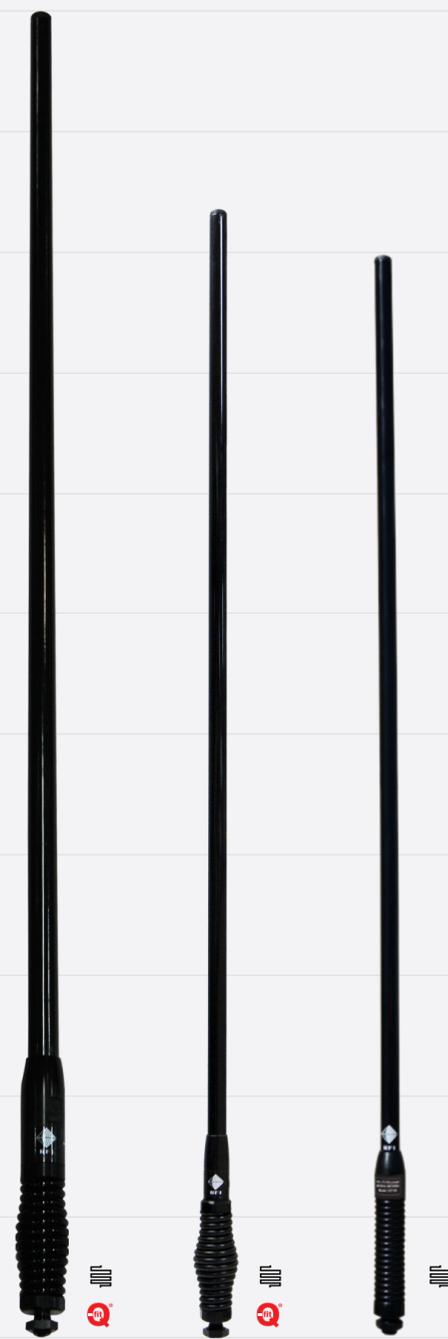
RFI's City / Country packs include two whips; one shorter low gain and one longer high gain whip. Low gain whips are ideal for around the city and in hilly terrain, while higher gain whips are ideal for general 4WDing and touring (see Antenna Selection on the back page).

Mounting Accessories



RFI has a comprehensive range of mounting accessories to give you the flexibility to mount your antennas on the best available location on your vehicle. These include folding bull bar brackets, gutter, guard, bonnet/boot and wrap around mounts.

Meander® Antennas

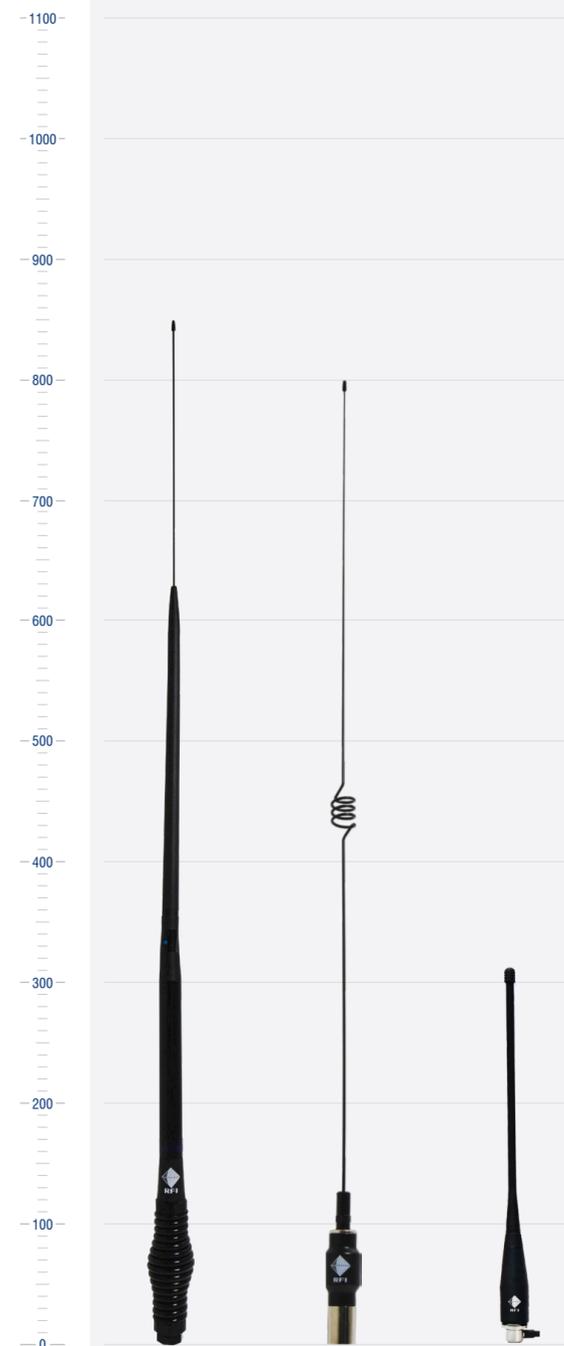


CDQ5000

CDR5000

CD5000

Flexible Whip Antennas



CD900

CD63

CD34

Unit: MM

Meander® Antenna Range

Series Number	Gain (dB)	Length (mm)	Mounting Options	Colour Options	Combo Pack	Meander®	Q-Fit®
Heavy Duty CDQ5000	If you do a lot of bush bashing or desert trips then this antenna is for you. Rock solid with proven reliability, our flagship antenna has the range, strength and quality to go the distance. Designed for ruggedness, from the extra heavy duty Q-Fit® spring through to our patented Meander® flexible PCB, this antenna will take the knocks and keep you in communication when it matters most.						
	5	1100	Bull Bar	● Black / ● White	City/Country with CDQ34 Whip		
Mid Level CDR5000	Medium weight version of the CDQ series. Without compromising on performance and still have the option to quickly swap to the smaller antenna when hiking through steep terrain or cruising around the metro area where height and aesthetics need to be considered.						
	5	930	Bull Bar or Guard	● Black / ● White	City/Country with CD34 Whip		
Entry Level CD5000	Stylish and durable all-rounder when you need a visually low impact antenna with the benefits of an elevated feed to get above vehicle bodywork. Flexible and strong can withstand constant rugged vibration over terrain where others fail.						
	5	900	Bull Bar or Guard	● Black / ● White	N/A		N/A

Flexible Whip Antenna Range

Series Number	Gain (dB)	Length (mm)	Mounting Options	Colour Options	Combo Pack
All Round CD900	Stylish and durable all-rounder when you need a visually low impact antenna with the benefits of an elevated feed to get above vehicle bodywork. Flexible and strong can withstand constant rugged vibration over terrain where others fail.				
	6.5	850	Bull Bar or Guard	● Black	City/Country with SW125 Whip
Lite Series CD63	The lite series antenna is a stunning performer yet designed to provide low visual impact. The stainless steel whip is highly flexible and durable with extraordinary performance to match.				
	6	800	Bull Bar or Guard	● Black	N/A
City Series CD34	This compact yet rugged antenna is designed to be used in a variety of mounting positions. Being only 300mm long it can be mounted high on a vehicle which provides excellent omni-directional performance. Best suited to build up urban areas or hilly terrain.				
	4	330	Bull Bar or Roof	● Black	N/A

Matching Cellular Antennas

RFI manufactures a range of multi-band cellular antennas. These antennas are identical in appearance to the CD5000, CDR5000 and CDQ5000 UHF CB antennas for the perfect match. Visit rfi.com.au to view the range.