

# OUTREACH

LAND MOBILE UHF CB &  
CELLULAR ANTENNAS

FOUR-WHEEL DRIVE



MINING & INDUSTRIAL



TRUCKING & TRANSPORT



FARMING & AGRICULTURE



[www.benelec.au](http://www.benelec.au)

Benelec Pty Ltd. 17 Byrnes St, Botany NSW 2019, Australia  
+61-2-8397-3333 | [reception@benelec.com.au](mailto:reception@benelec.com.au)





## OUTREACH

Land Mobile UHF CB & Cellular Antennas

Gain describes the shape of the radiation from an antenna. We recommend the use of a lower gain antenna for the communications in vehicle convoy situations.


### 6.5 dBi Antenna





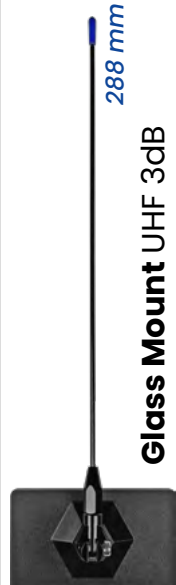




More commonly used, all-around performance, better for open flat terrain.

### 3 dBi Antenna

Great for hilly and mountainous terrains, as well as city driving.



 We recommend the use of a lower gain antenna for the communications in vehicle convoy situations.

	UHF CB	UHF CB	UHF CB	UHF CB	UHF CB	CELLULAR	CELLULAR
			<b>NEW COMING SOON</b>				
							
	336 mm	385 mm	288 mm	870 mm	1300 mm	905 mm	905 mm
	<b>Flexi-Dipole M Base UHF 4dB</b>	<b>Flexi-Dipole UHF 4dB</b>	<b>Glass Mount UHF 3dB</b>	<b>Xtender UHF M Base 6.5dB</b>	<b>Adventurer UHF M Base 9dB</b>	<b>Cell 6 5G 6dB</b>	<b>Cell 6 Removable 5G 6dB</b>
TERMINATION	UHF Male plug (PL-259)	Stud mount with 5m RG58C/U + FME Socket with UHF Plug Adaptor	Glass mount with 5m RG58C/U + FME Socket with UHF Plug Adaptor	M Base with 5m RG58C/U + FME Socket with UHF Plug Adaptor	M Base with 5m RG58C/U + FME Socket with UHF Plug Adaptor	Spring Base with 5m Low Loss RG58 with SMA Plug	Spring Base with 5m Low Loss RG58 with SMA Plug
GAIN	4 dB	4 dB	3 dB	6.5 dB	9 dB	6 dB	6 dB
FREQ.	477 MHz	477 MHz	477 MHz	477 MHz	477 MHz	• 690–960 • 1710–2700 • 3500 – 3700 MHz	• 690–960 • 1710–2700 • 3500 – 3700 MHz
SKU	02634XC	02634X	02656	02632	02629	024575	024575R

Images are not to scale.



## ALL TERRAIN DUAL Antenna Series



**High Gain**  
for flat terrain

**Low Gain**  
for mountainous terrain



UHF CB	UHF CB	UHF CB	CELLULAR	CELLULAR
 <p>450 mm / 900 mm</p> <p><b>Explorer UHF 3 &amp; 6.5dB</b></p>	 <p>495 mm / 1170 mm</p> <p><b>4Wheeler Twin UHF 3 &amp; 6.5dB</b></p>	 <p>672 mm / 1093 mm</p> <p><b>NEW</b></p> <p><b>Xtreme UHF 3 &amp; 6.5dB</b></p>	 <p>440 mm / 1240 mm</p> <p><b>NEW</b></p> <p><b>Cell Twin 5G 3 &amp; 7.5dB</b></p>	 <p>672 mm / 1093 mm</p> <p><b>NEW</b></p> <p><b>Xtreme Cell Twin 5G 3 &amp; 6dB</b></p>
02635	02638	026381K	024579RK	024581RK
477 MHz	477 MHz	477 MHz	• 690–960 • 1710–2700 • 3500 – 3700 MHz	• 690–960 • 1710–2700 • 3500 – 3700 MHz
3 dB / 6.5 dB	3 dB / 6.5 dB	3 dB / 6.5 dB	3 dB / 7.5 dB	3 dB / 6 dB
Stud mount with 5m RG58C/U + FME Socket with UHF Plug Adaptor	Spring Base with 5m Low Loss RG58 with SMA Plug and UHF Adaptor	1/2" Stud mount with 5m RG58C/U + FME Socket with UHF Plug Adaptor	Spring Base with 5m Low Loss RG58 with SMA Plug	1/2" Stud mount with 5m Low Loss RG58 with SMA Plug

TERMINATION GAIN FREQ. SKU

Images are not to scale.





Mirror Bracket  
SKU: 02728



Adjustable Lip Bracket  
SKU: 027303



Z Bracket Guard Mount  
SKU: 02734



Super Sucker Mag Base Kit  
SKU: 027423



Wrap Around Bracket 50mm  
SKU: 027314



Wrap Around Bracket 63mm  
SKU: 027315



Standard Bull Bar Bracket  
SKU: 02732



Ultra Heavy Duty Fold Down BB Mount  
SKU: 027323

NEW  
COMING  
SOON



Fold Down Gutter Bracket  
SKU: 02714S



Heavy Duty Gutter Bracket  
SKU: 02726S



UHF Switch - 1 in x 2 out  
SKU: 1738101B



M Base 5m RG58 to FME socket  
SKU: 10109

## GPI Radiating Patterns

Ground Plane Independent (GPI) antennas can be mounted anywhere on the vehicle. These antennas work independently of the vehicle body, and as such they provide consistent performance all the way around the antenna.



## Mounting Tips & Advice

- For better performance locate the antenna higher on the vehicle.
- Brackets and antenna mountings are to be secured properly.
- Antennas must be mounted vertically, this is particularly important with higher gain antennas.
- Avoid affixing any object to the antenna as it could affect the performance of the communications system.
- Ground Plane antennas need to be fitted direct to vehicle panels, as bracket mounting will compromise the performance.
- Do not mount antennas close to each other. Min distance should be 70cm between antennas. The further apart the two antennas, the better the performance of each respective antenna.
- Do not mount antennas closer than 70cm to any metal vertical surface.
- Do not mount antennas operating on the same band, at the same horizontal level unless a switch selects them.

## Connector Advice

We recommend to add a thread locking adhesive (eg Loctite 242 Blue – Threadlocker Medium Strength) at the interface between the cable connector (FME socket) and the UHF plug adaptor as it's possible for this connection to vibrate loose over time.

Exposed connectors should be sealed with self amalgamating tape such as Benelec P/N 5052219BK or equivalent.

## Cable Advice

Care must be taken to not damage, cut or crush the coaxial cable when routing it to the transceiver through a vehicle. We recommend to seal any points where the cable enters the vehicle.

## Available from: