

BENELEC

OUTREACH

LAND MOBILE UHF CB &
CELLULAR ANTENNAS

FOUR-WHEEL DRIVE

MINING & INDUSTRIAL



V1.2

TRUCKING & TRANSPORT

FARMING & AGRICULTURE



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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.










6.5dB

3dB

3dB

6.5dB

 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
			NEW COMING SOON				
							
	336 mm	385 mm	288 mm	870 mm	1300 mm	905 mm	905 mm
	Flexi-Dipole M Base UHF 4dB	Flexi-Dipole UHF 4dB	Glass Mount UHF 3dB	Xtender UHF M Base 6.5dB	Adventurer UHF M Base 9dB	Cell 6 5G 6dB	Cell 6 Removable 5G 6dB
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>Explorer UHF 3 & 6.5dB</p>	 <p>495 mm / 1170 mm</p> <p>4Wheeler Twin UHF 3 & 6.5dB</p>	 <p>672 mm / 1093 mm</p> <p>NEW</p> <p>Xtreme UHF 3 & 6.5dB</p> 	 <p>440 mm / 1240 mm</p> <p>NEW</p> <p>Cell Twin 5G 3 & 7.5dB</p> 	 <p>672 mm / 1093 mm</p> <p>NEW</p> <p>Xtreme Cell Twin 5G 3 & 6dB</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



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: