

# boatersphone

the mobile reception specialists

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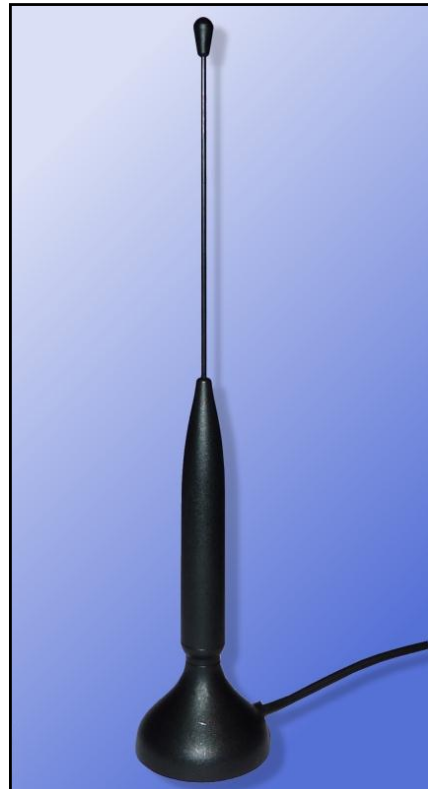
## High Gain 3G Mini Mag Whip

### How does this whip differ from our standard multiband whip?

This whip fits to our normal Mini Mag base and works in a similar fashion. The difference is that the whip has a higher theoretical decibel rating, which means it has a higher gain and in turn gives a better signal strength at the 2100MHz frequency band which 3G operates on.

### Does this antenna have any downsides to it?

Because this whip is higher gain, it in turn affects the plane in which it works. The drawback to having a higher dB whip is that the "line-of-sight" transmission angle of the whip is reduced, so it is more effective in the horizontal plane and less so as the angle increases in the vertical plane.



### So what does that mean for me?

This whip is only recommended for people who live in an area which is largely flat, as the mobile networks' masts will be close to the horizontal plane. We do not recommend this whip for anyone who will need to use it in an area which has uneven terrain and where the networks' masts may be higher or lower than the location that the phone or USB 3G dongle will be used.

### How do I attach the new whip to my Mini Mag base?

The whips on our Mini Mag antennas are simple screw fit ones and as such it is only necessary to screw the old whip off the base and screw the new one on. The whip shouldn't be over tightened as this may cause damage. We suggest screwing it down firmly but without using too much pressure.