



## **Fringe Area Mobile Reception**

The signal strength of mobile reception fluctuates with local conditions, therefore at levels of less than 3 bars, occasional dropouts may occur. In Fringe areas this problem becomes chronic with signal levels often going below 1 bar or indoor reception failing altogether.

In this case the first action should be to position the computer close to a window preferably facing the nearest Mobile tower. Improved results often occur if you use a rear USB Computer port and insert a 2 Metre USB extension cable between this and the USB Modem, then hang the modem in the window so that it is in a vertical position.

An alternative approach can be to use a Mini Wi-Fi modem located in another room where the signal is better and connect to this modem by means of its local Wi-Fi signal.

In regional areas often none of these approaches is sufficient and an external antenna is necessary to get reliable reception. For this purpose an encased directional multiband Yagi Triangle aerial, mounted half way up your TV mast is recommended, connected by co-axial cable to a convenient mounted socket on the wall inside. A short fly lead can then be used to connect the socket to the USB modem. The antenna should then be directed at the nearest tower or rotated to a position of maximum signal.

Common Australian Mobile frequencies are:-

[http://whirlpool.net.au/wiki/mobile\\_phone\\_frequencies](http://whirlpool.net.au/wiki/mobile_phone_frequencies)

Known suppliers of suitable RF antenna & accessories are:-

RF Shop Australia Pty Ltd:-

<http://rfshop.com.au/broadband-aerial-antenna-wireless-mobile-phone-700mhz-2-7ghz-11dbi-yagi0627y11.html>

LW Oct 2015