



Network Coverage - Antennas

Connectivity is vital to regional, rural and remote communities, which is why Telstra has consistently weighted network investments towards extending coverage. In the previous three financial years alone, we have invested \$2.2 billion in our regional mobile network so more Australians can experience a connected world that supports their way of life.

The increasing availability of high speed internet access through fixed broadband, mobile and satellite technologies is building a bridge that regional communities can use to access knowledge, markets and services that may have previously been out of reach. Greater connectivity also enables greater innovation. Fostering this innovation is key for future generations who will live and work in regional Australia.

Telstra has Australia's largest mobile network with greater reliability and faster speed in more places.

What Influences Your Network Coverage?

Like any mobile network, coverage on the Telstra Mobile Network depends on where you are, the mobile handset, tablet or mobile broadband device you're using, and whether there's an external antenna attached.

It's important to understand that different devices have different capabilities. How each device performs depends on network coverage and device type, make and settings. There are some important factors to consider when choosing a mobile device and any accessories:

- Where you'll be using your device – metropolitan areas, regional areas, rural areas, out at sea or indoors; and
- Whether you'll be using it:

- in handheld mode
- with a directly coupled car kit and an external antenna; or
- with a patch lead and an external antenna.

Obstructions – such as buildings, vehicles, trees, hills and building materials – can all reduce the signal level available for your mobile handset, tablet or mobile broadband device. Indoor mobile coverage is susceptible to interference from the building you are in, and just as TV sets sometimes need external antennas to improve reception, there are cases where the use of an external antennas can make a significant difference to the performance of a mobile device indoors.

Antennas

Would you like to boost your connection? Adding an external antenna can get you maximum coverage, and clearer voice and faster data in regional and rural areas. It comes down to choosing the right antenna for the best result.

External Antennas

External antennas can dramatically improve your coverage, allowing you to connect to the Telstra network from further away than normally possible, or in hilly or dense tree-covered terrain. They connect to your phone or broadband device and amplify the network signal where coverage is patchy.

While most mobile phones and broadband devices have built-in antennas, their size and their performance is limited by the size of the device.

Our Range of Antennas

Our range of external antennas will boost your connection, inside or out.

There are 3 main classifications of antenna:

- Low to Medium gain antennas (0-5dBi),
- High Gain Antennas (5-9dBi) and
- Very High Gain Antennas (above 9dBi)

Low to Medium gain antennas

Low Gain (0-2.5dBi) antennas are ultra-portable and designed to boost signal strength in good coverage areas. They transmit equally in all directions including vertically, making them ideal for built up metropolitan areas and regional centres.

Medium Gain (3-5dBi) antennas boost signal strength for voice and data devices within buildings, and in fringe coverage areas of the network. They focus the signal towards the horizon and are ideal for areas where the terrain is moderately hilly and base stations are further apart.

Telstra Smart Antenna 4G ®

The Telstra Mobile Smart Antenna 4G ® is designed to extend indoor coverage for Telstra 3G and 4G/4GX mobile or mobile broadband services, in Telstra Mobile network coverage areas. An external high gain antenna and installation may be required.

High Gain Antennas

These powerful 5-9dBi rated antennas can significantly boost the signal range for cars, homes and businesses in remote areas with patchy reception or nearby reception. High gain antennas are omni-directional and need to be mounted on the outside of your vehicle or building. They are ideal for flat or moderately hilly country where base stations are sparse, and for boosting coverage along major highways. They are not suitable if there's no reception at all in the vicinity.

Very High Gain Antennas

Very High Gain antennas are directional, which means they are very effective at boosting your signal range when pointed directly at a mobile phone base station. Directional antennas can dramatically improve your voice and data performance if you're on the outer limits of the mobile coverage map, or you just have average reception in your region. They must be mounted on poles or high buildings - the higher the better - and aimed exactly at the base station. They are not suitable for vehicles.

Find Out More

Visit Telstra.com.au/coverage-networks/our-coverage, or visit your local Telstra shop for help choosing and installing the right antenna or repeater for your location.

Contact us to discuss which antenna or repeater could boost your coverage.

Residential customers

Call **132 200** and say 'coverage' after supplying your number.

Business customers

Call **132 000** and say 'coverage' after supplying your number.

Account Managed customers

Contact your account executive.

