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Antennas ( <a href="https://www.telcoantennas.com.au/antennas/">https://www.telcoantennas.com.au/antennas/</a> )	/ Smart Guides (/buying/buying-guides/) / Guide to 4G (/buying/smart-guides/guide-to-4g/)
Adaptors & RF Components ( <a href="https://www.telcoantennas.com.au/adaptors-rf-components/">https://www.telcoantennas.com.au/adaptors-rf-components/</a> )	<h2>Guide to 4G</h2> <p>Before you purchase a SIM, modem, antenna, cables et cetera, you should know the differences that separate 4G LTE from other networks.</p> <p>What is 4G</p> <p>4G is Fourth Generation high speed data service, that uses the LTE or Long Term Evolution radio standard to operate on mobile phone technology.</p> <p>4G is an internet (packet) service - it is not currently used to make or receive phone calls. This means that even in 4G areas, your mobile phone will connect to a 3G tower to make a phone call.</p> <p>Telstra vs Optus vs Vodafone - Network Comparison</p> <p>All three major network operators in Australia provide 4G networks.</p> <p>Telstra (<a href="https://www.telstra.com.au/coverage-networks/our-network">https://www.telstra.com.au/coverage-networks/our-network</a>) currently has the largest network with 4G and 4GX available in all metro areas, and in 1600 regional areas across Australia.</p> <p>Optus (<a href="https://www.optus.com.au/about/network/regional-coverage/4g-plus">https://www.optus.com.au/about/network/regional-coverage/4g-plus</a>) is currently investing in their 4G network covering over 700 regional areas.</p> <p>Vodafone (<a href="https://www.vodafone.com.au/network/coverage-checker">https://www.vodafone.com.au/network/coverage-checker</a>) is working hard on their network, with 177 plus towers in regional areas.</p> <p>Telstra 4G and 4GX</p> <p>Early 2015, Telstra launched their 4GX network expansion, which includes two additional carrier frequencies - 700 MHz and 2600 MHz, on top of their existing 1800 MHz network.</p> <p>The 4G expansion, coined 4GX, provides significantly further range in regional areas, and more capacity in urban areas, meaning less congestion and faster average speeds.</p> <p>Using carrier aggregation, the 4GX network can allow compatible 4G modems to operate on multiple frequencies at once, increasing maximum peak speeds - theoretically as high as 300 Mbps (using 3x 20 MHz carriers).</p> <p>Optus 4G</p> <p>Like Telstra, Optus are rolling out of their 700 and 2600 MHz LTE networks, providing more coverage with faster average and peak data rates. Both networks aim for 90% population coverage.</p> <p>The network gets a little confusing, with Optus also operating a 2300 MHz 4G service in urban areas for greater capacity. As such it's often best to select an</p>
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Patch Leads ( <a href="https://www.telcoantennas.com.au/patch-leads/">https://www.telcoantennas.com.au/patch-leads/</a> )	

Repeaters & Repeater Kits ( <a href="https://www.telcoantennas.com.au/repeaters-repeater-kits/">https://www.telcoantennas.com.au/repeaters-repeater-kits/</a> )	antenna that can operate on all frequencies.  Vodafone 4G  Vodafone have not purchased any 700 MHz spectrum, instead they have decided to convert their existing 850 MHz 3G network into a 4G network to compete with the new Telstra and Optus long range networks.
RF Connectors ( <a href="https://www.telcoantennas.com.au/rf-connectors/">https://www.telcoantennas.com.au/rf-connectors/</a> )	This network runs parallel with their existing 1800 MHz 4G network, reporting to cover over 22 million Australians.
Services ( <a href="https://www.telcoantennas.com.au/services/">https://www.telcoantennas.com.au/services/</a> )	What's so great about these frequency bands?
Tools & Installation Hardware ( <a href="https://www.telcoantennas.com.au/tools-installation-hardware/">https://www.telcoantennas.com.au/tools-installation-hardware/</a> )	700 MHz  The 700 MHz network is an absolute game changer and with so many changes to 4G in Australia, it's an exciting time to jump on board a 4G network.  One of the major drawbacks with the older 1800 MHz 4G network has been that its high carrier frequency doesn't travel particularly far and doesn't penetrate well indoors.
Vehicle, Caravan & Marine ( <a href="https://www.telcoantennas.com.au/vehicle-caravan-marine/">https://www.telcoantennas.com.au/vehicle-caravan-marine/</a> )	On the other hand, 700 MHz has a low frequency that travels much further, bends around and behind hills, and easily penetrates inside buildings, providing coverage similar to Telstra Next-G.
Wireless & Networking ( <a href="https://www.telcoantennas.com.au/wireless-networking/">https://www.telcoantennas.com.au/wireless-networking/</a> )	This means high speed data will now be available for making phone calls (in switched-on areas).  We conducted several field tests that showed people could achieve over 80 Mbps using a high gain panel antenna in some locations that did not have phone coverage,
Wireless PtP & PtMP ( <a href="https://www.telcoantennas.com.au/wireless-ptp-ptmp/">https://www.telcoantennas.com.au/wireless-ptp-ptmp/</a> )	2600 MHz  There's not a lot of publicity about the new 2600 MHz 4G network, and despite having a very short range, it helps reduce congestion in densely populated areas, such as city centres where the operation of a long range transmitter would have considerable self interference (due to the long reuse distance required).
Information	
Network Resource Center (/network-resource-center/)	Concepts such as MIMO, antenna type, and selection will be discussed further in the relevant product categories.
Enquire About a Product (/form/ask-a-question-about-this-product/)	For a more in-depth understanding, read our Guide to 4G Antennas and MIMO ( <a href="http://www.telcoantennas.com.au/buying/buyers-guides/guide-to-4g-antennas-and-mimo/">http://www.telcoantennas.com.au/buying/buyers-guides/guide-to-4g-antennas-and-mimo/</a> ).
RMA Form (/warranties-and-returns/)	View our selection of 4G antennas. ( <a href="http://www.telcoantennas.com.au/list-by-band/">http://www.telcoantennas.com.au/list-by-band/</a> )
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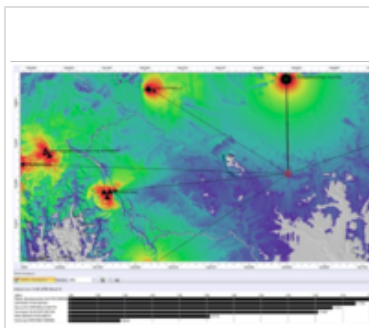
(<https://www.telcoantennas.com.au/desktop-survey-microwave-link-900MHz-to-38GHz>)

Desktop Site Survey - Microwave Link

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\$149.00

See Options (<https://www.telcoantennas.com.au/desktop-survey-microwave-link-900MHz-to-38GHz>)



(<https://www.telcoantennas.com.au/desktop-site-survey-3g-4g-4gx-computer-modelling-study>)

Desktop Site Survey (Detailed) - 3G / 4G / 4GX / 4

(<https://www.telcoantennas.com.au>)

\$99.00

See Options (<https://www.telcoantennas.com.au/desktop-site-survey-3g-4g-4gx-computer-modelling-study>)



(<https://www.telcoantennas.com.au/basic-desktop-site-analysis-3g-4g>)

Desktop Site Analysis (Basic) - 3G & 4G Site Analy

(<https://www.telcoantennas.com.au>)

\$39.00

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