

## Mobile Bands used in Australia

Each country has a different set of Frequencies or Bands that are used for Mobile services. Australian carriers have quite unique frequencies and bands. Purchasing a phone that does not carry the appropriate bands and frequencies for use in Australia is fraught with risk. It can mean the difference between a perfectly functioning phone and one that's totally unusable.

Here you can see which bands (or frequencies) each provider is using and what percentage of their network has coverage on these bands.

### What do I need to look for when purchasing a phone?

If you purchase the phone for use in Australia you should always ensure the device is fully compatible with your carriers network and carries all the bands necessary to operate correctly. Never purchase a device if it doesn't support Australian carrier bands.

### My phone supports some 4G bands but not all of them, will it still work?

Mobile bands are generally split into 2 categories, low band and high band. For the best experience and coverage your going to need to support bands from both categories.

Low Band is generally 700Mhz to 900Mhz, High Band is 1800Mhz to 2600Mhz.

In Australia, given our vast land mass, all carriers will generally deploy Low Band 4G frequencies (Band 28, 700MHz) because its long wave length travels much further than High Band frequencies. The carrier is therefore able to provide 4G network coverage with the lowest possible number of mobile phone towers. This is especially the case in rural and remote areas.

If you have a device that does not support Band 28 then your data speed and coverage will be severely limited to Metropolitan areas and some large towns. 4G coverage in rural and remote areas will likely be non existent and your device will only give 3G data performance if it is missing Band 28.

Therefore never purchase a 4G device if it is missing Band 28.

## Telstra

Generation *	Spectrum	Band	ACT	NSW	VIC	QLD	SA	WA	TAS	NT	Sites %	Site Total
2G	900MHz		<u>24</u>	<u>861</u>	<u>807</u>	<u>641</u>	<u>311</u>	<u>333</u>	<u>97</u>	<u>38</u>	40.70%	<u>3112</u>
2G	1800MHz		<u>1</u>	<u>14</u>	<u>15</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>0</u>	0.48%	<u>37</u>
3G	850MHz	Band 5	<u>68</u>	<u>2079</u>	<u>1753</u>	<u>1608</u>	<u>598</u>	<u>935</u>	<u>216</u>	<u>130</u>	96.63%	<u>7388</u>
3G	2100MHz	Band 1	<u>26</u>	<u>426</u>	<u>435</u>	<u>401</u>	<u>132</u>	<u>274</u>	<u>38</u>	<u>24</u>	22.97%	<u>1756</u>
4G	700MHz	Band 28	<u>40</u>	<u>990</u>	<u>860</u>	<u>913</u>	<u>400</u>	<u>525</u>	<u>69</u>	<u>53</u>	50.37%	<u>3851</u>
4G	900MHz	Band 8	<u>0</u>	<u>4</u>	<u>5</u>	<u>68</u>	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>	1.07%	<u>82</u>
4G	1800MHz	Band 3	<u>57</u>	<u>1169</u>	<u>1026</u>	<u>959</u>	<u>346</u>	<u>410</u>	<u>89</u>	<u>47</u>	53.66%	<u>4103</u>
4G	2100MHz	Band 1	<u>0</u>	<u>6</u>	<u>8</u>	<u>57</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0.93%	<u>71</u>
4G	2300MHz	Band 40	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>0</u>	<u>1</u>	0.04%	<u>3</u>
4G	2600MHz	Band 7	<u>4</u>	<u>66</u>	<u>78</u>	<u>60</u>	<u>24</u>	<u>45</u>	<u>1</u>	<u>15</u>	3.83%	<u>293</u>

\* 2G Services switched off: Telstra Dec 1st 2016, Optus NT + WA April 3rd 2017

## Optus

Generation	Spectrum	Band	ACT	NSW	VIC	QLD	SA	WA	TAS	NT	Sites %	Site Total
2G	900MHz		<u>68</u>	<u>1457</u>	<u>1282</u>	<u>938</u>	<u>387</u>	<u>428</u>	<u>45</u>	<u>48</u>	72.94%	<u>4654</u>
2G	1800MHz		<u>0</u>	<u>40</u>	<u>20</u>	<u>6</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	1.05%	<u>67</u>
3G	900MHz	Band 8	<u>87</u>	<u>1852</u>	<u>1502</u>	<u>1206</u>	<u>512</u>	<u>572</u>	<u>110</u>	<u>57</u>	92.45%	<u>5899</u>
3G	2100MHz	Band 1	<u>92</u>	<u>1615</u>	<u>1277</u>	<u>1025</u>	<u>393</u>	<u>457</u>	<u>44</u>	<u>42</u>	77.50%	<u>4945</u>
4G	700MHz	Band 28	<u>77</u>	<u>1468</u>	<u>1286</u>	<u>1004</u>	<u>467</u>	<u>490</u>	<u>105</u>	<u>51</u>	77.56%	<u>4949</u>
4G	900MHz	Band 8	<u>0</u>	<u>11</u>	<u>19</u>	<u>14</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	0.72%	<u>46</u>
4G	1800MHz	Band 3	<u>2</u>	<u>1208</u>	<u>1035</u>	<u>655</u>	<u>329</u>	<u>371</u>	<u>1</u>	<u>2</u>	56.48%	<u>3604</u>
4G	2100MHz	Band 1	<u>30</u>	<u>56</u>	<u>23</u>	<u>37</u>	<u>16</u>	<u>7</u>	<u>34</u>	<u>35</u>	3.73%	<u>238</u>
4G	2300MHz	Band 40	<u>77</u>	<u>853</u>	<u>810</u>	<u>382</u>	<u>261</u>	<u>299</u>	<u>0</u>	<u>2</u>	42.06%	<u>2684</u>
4G	2600MHz	Band 7	<u>41</u>	<u>710</u>	<u>754</u>	<u>502</u>	<u>293</u>	<u>268</u>	<u>71</u>	<u>34</u>	41.89%	<u>2673</u>
4G	3500MHz	Band 42	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0.02%	<u>1</u>

\* Please note the above information is valid and sourced from <https://oztowers.com.au/Bands>