



## A-Core Container

# New Zealand installs 5G communication base station EMS



## Overview

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In NZ 5G has already been launched by Spark and Vodafone in limited locations, with further rollout planned in the near future. Spark initially trialled 5G wireless in Alexandra, and then extended 5G to parts of Waimate.

Are 5G cell sites covered by New Zealand radiofrequency exposure standard?

† The frequencies to be used by 5G cell sites and devices are similar to those that have been used by existing technologies for many years, and are covered by the limits in New Zealand Radiofrequency Exposure Standard. (more information on the New Zealand Standard is provided on page 3 of this pack).

Do 5G cell sites comply with NESTF standards?

The Resource Management (National Environmental Standards for Telecommunication Facilities) Regulations 2016 (NESTF) require that all cell sites, including those that use 5G technologies, comply with the standards. This includes the New Zealand Radiofrequency Field Exposure Standard, which set maximum exposure limits for the public.

What are New Zealand's new 5G contracts?

The Government has today announced that contracts have been signed with New Zealand's 3 major telecommunications network operators to accelerate the roll-out of 5G services and improve rural connectivity. The Government has been working with Spark, 2Degrees and One New Zealand over the past 14 months to negotiate a deal that will..

Where is 5G being implemented in NZ?

5G is being implemented in countries throughout the world. In NZ it has already been launched in parts of Auckland, Wellington, Christchurch, Queenstown, Alexandra, Westport, Twizel, Tekapo, Hokitika and Clyde. Which frequencies will be used in NZ?

The frequency 5G will use in NZ will initially be 3.5 GHz.

Does the NZ exposure standard cover 5G?

The current NZ exposure standard already covers 5G. The limits in the exposure standard are more than 50 times lower than the levels at which adverse effects might occur. These limits protect people of all ages, including children.

### What frequencies will 5G use in NZ?

The initial roll out of 5G in NZ will use frequencies in the same range as 4G. In the future, the network will use a higher frequency (lower wavelength waves) – known as millimetre waves. These are closer in frequency to those used for satellite communications and some vehicle radars.

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### Contact Us

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