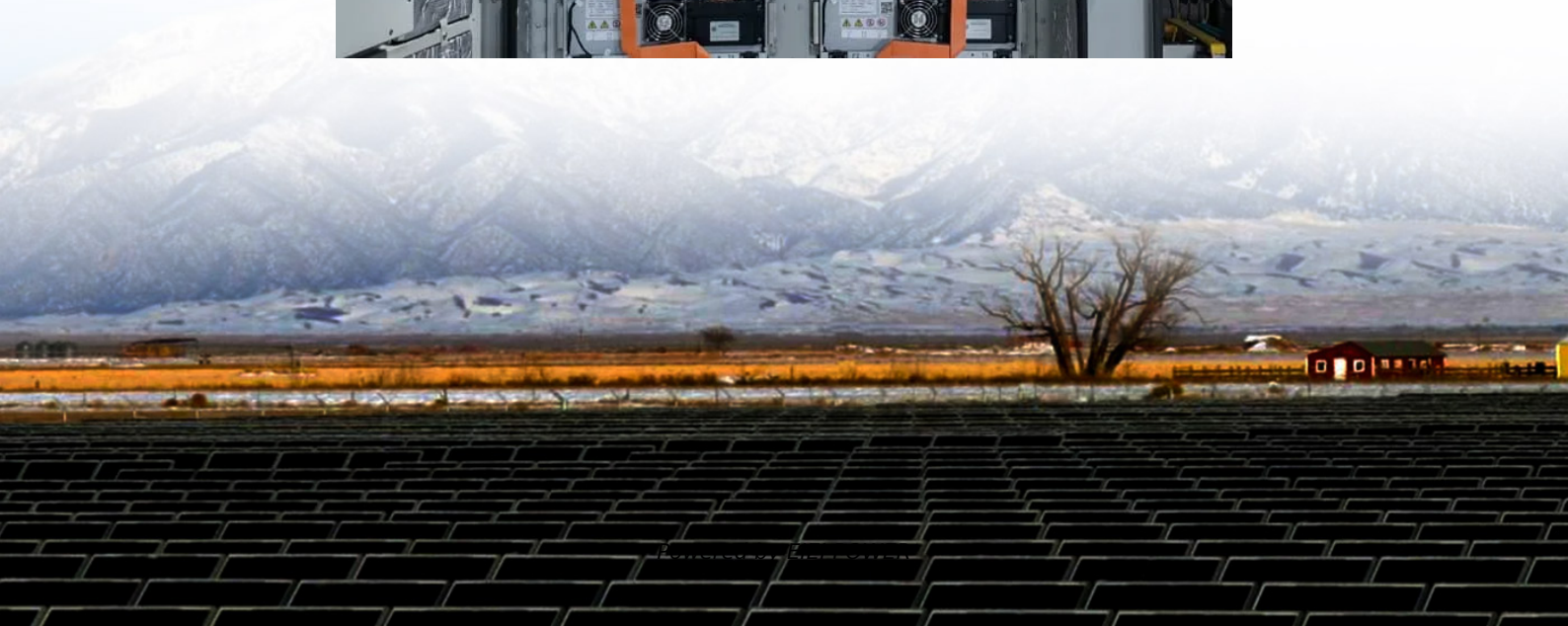


Canada Communications Company 5G Micro Base Station





Overview

What is a 5G base station?

A 5G network base-station connects other wireless devices to a central hub. A look at 5G base-station architecture includes various equipment, such as a 5G base station power amplifier, which converts signals from RF antennas to BUU cabinets (baseband unit in wireless stations).

What if my company has expertise in 5G?

If your company has expertise in 5G, either in networking or applications development, contact the CRC about collaborating and using the CRC-City of Ottawa test site. The CRC and the City of Ottawa are collaborating on the next generation of wireless: 5G.

How can we keep pace with 5G Innovation?

To keep pace with 5G innovation, we need to use new, higher frequency spectrum known as millimetre waves (mm-waves) for smartphone service. Until recently, it was believed that mm-waves were not suitable for mobile broadband communications. They are easily blocked by obstacles and they do not travel as far as the frequencies used for mobile today.

Can a printed surface increase 5G wireless coverage?

To extend coverage, the CRC and its collaborators, the National Research Council of Canada and GGI Solutions, have developed engineered surfaces. Printed patterns in the surfaces redirect wireless signals. These low-cost printed electronics can dramatically increase 5G wireless coverage.



Canada Communications Company 5G Micro Base Station



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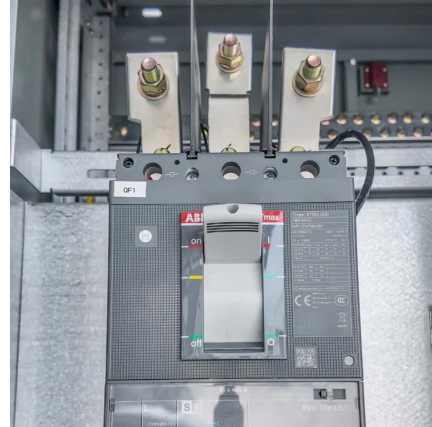


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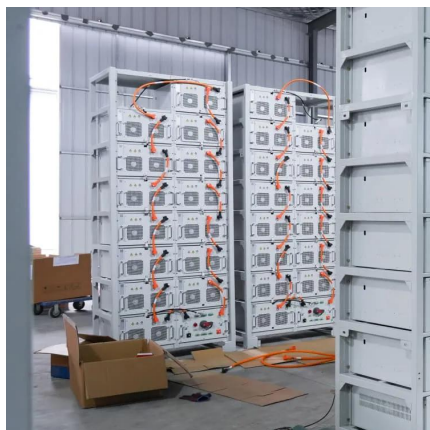


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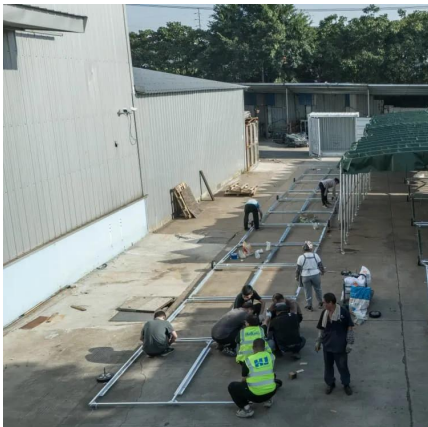


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