5G Fixed Wireless

5G over the next several years will prove to be one of the most important pieces of technology that will ever come out. It enables everything we see emerging today to communicate with each other; whether it's self-driving cars that talk to each other preventing accidents; to connecting all your networks work, home, mobile, public and private; to having the most amazing video experiences on all your mobile devices, laptops, tablets, computers, TVs and more.

Now is the time to unlock the next technological revolution in telecommunications. It's your turn to be on the cutting edge of making it happen.

We believe fixed wireless is the best, most cost effective and fastest solution available today.

Are you 5G ready?

We offer:

+ High quality products

+ Quick Delivery

+ Competitive price

Connect with confidence

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Overview

As more devices are connected wirelessly, the need for wireless technologies that can handle increased data and capacity demands has grown exponentially. The coming onslaught of Internet of Things (IoT) devices threatens to overwhelm existing wireless networks while the proliferation of video streaming and virtual reality technology requires faster data rates than are currently available. Multiple input, multiple output (MIMO) is one technology that has the potential to solve these problems by enabling the next generation of wireless. By using more than one antenna, multiple data signals can be sent in the same time and frequency domain to offer huge gains in capacity, throughput, reliability, or a combination of the three. As leading researchers and wireless companies rush to explore new communications technologies, MIMO will be a crucial topic.

Multi-User MIMO (MU-MIMO) shows immense promise for fifth-generation (5G) wireless networks. MU-MIMO enables a base station with many antennas to use advanced signal processing techniques to target multiple users simultaneously while reusing the same time and frequency space. MU-MIMO and Massive MIMO, a version of MU-MIMO, open the possibility of increasing the capacity of a wireless network by more than tenfold while increasing reliability and network density.

Some of the theory behind MU-MIMO and Massive MIMO has been laid out, but researchers need to innovate faster by building real-world prototypes. The NI MIMO Prototyping System is a testbed that enables researchers to prototype these 5G MIMO systems and achieve rapid results.