

Wibernet Unleashes Revolutionary Multi-Gigabit 5G Fixed Wireless Technology in Cape Town

“cnWave 5G Fixed delivers top tier service from a top tier company. It has given us a competitive edge delivering true fiber like speeds over the air.”

RUSSEL PURDON,
FOUNDER AND OWNER, WIBERNET



WIBERNET WINS BROADBAND CUSTOMERS away from established service providers. A Wireless Internet Service Provider (WISP) in Cape Town, South Africa serving thousands of business and residential subscribers, they have been challenging the status quo since 2015 by delivering internet through the air. Wibernet’s passion is to always bring excitement and innovation to the world of connectivity.

The company invested in their own network to make sure that they have 100% control over performance and operation. This allows them to manage any contentions properly and to be able to give accurate feedback when any problems may arise. “Our highly skilled network engineers designed our network to be of the highest standard using carrier class wireless and fibre infrastructure that rivals even the biggest most successful ISP’S around!” says Russel Purdon, Founder and Owner of Wibernet.

“We learn by listening to understand the needs of our customers. We treat every subscriber as if they were our only customer,” says Purdon. Being on the cutting edge means that Wibernet feels subscriber pain early on. This also positions them to adopt innovative technology and accelerate their leadership. “We keep our customer base, without a high turnover. The COVID pandemic changed the residential service. People working from home needed not only higher bandwidth, but a higher quality of bandwidth. People needed to support multiple connections, streaming video and large file transfers”

Solution Technology

- **Fixed Wireless Broadband Infrastructure**
 - **cnWave™ 5G Fixed Base Transceiver Station (BTS)** - Delivering more than 3 Gbps and leveraging cnMedusa™ MU-MIMO technology and the 5G NR protocol. The BTS is built on software defined radio (SDR) architecture to enable continuous evolution and enhancements.



- **cnWave™ 5G Fixed Customer Premise Equipment (CPE)** - Provides over 400 Mbps of aggregate throughput using 5G NR protocol and SDR architecture.

Wibernet also uses the following Cambium Networks equipment in their network:

- PMP 450m fixed wireless broadband
- ePMP fixed wireless broadband
- cnMaestro™ cloud management

Key Features

- cnMedusa technology enhances sector capacity by combining a smart beamforming antenna array with multiple RF transmit and receive chains, effectively multiplying available capacity.
- One radio model capable of operation from 24.25 GHz to 29.50 GHz, covering the most common 5G bands globally.
- High performance radio interface optimized for fixed wireless and frequency re-use



Results

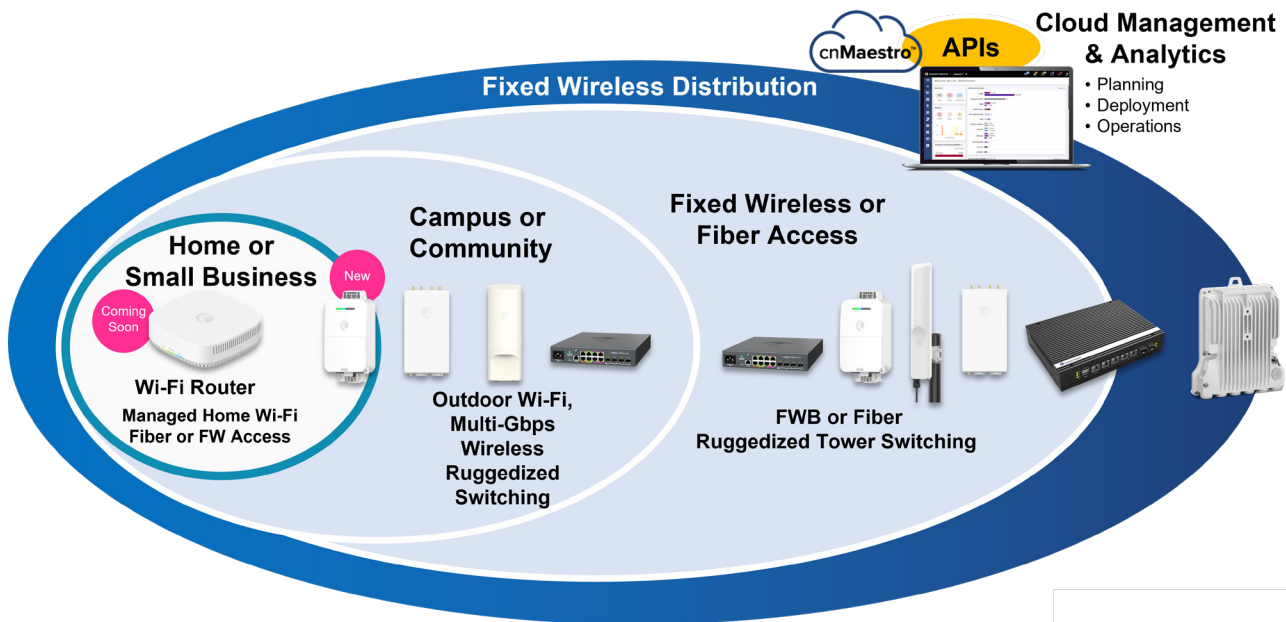
“**EVERYONE HAS BEEN EXTREMELY HAPPY** with the service over Cambium’s 5G Fixed solution,” says Purdon. “This technology is a game changer for us because we have the flexibility to offer 200 Mbps services to business and 50 Mbps to home users without breaking a sweat. This has taken our business to the next step.”

Platform Performance

- **112 MHz wide channels** support significant throughput
- **3 Gbps of total throughput** per sector
- **Over 100 Subscribers per sector** supported
- **5 km range**

“When we first started with the equipment, we were hopeful. The Cambium Networks engineers and support team helped us and assisted us. We are now able to win against our competition and delight our customers. The partnership with Cambium has been great.”

“Now we don’t have to hope that the network will give us 50 or 100 Mbps to the home. It just does,” says Purdon.



Cambium’s ONE Network

THE CAMBIUM ONE NETWORK automatically provisions, manages and monitors different elements of the network from a single pane of glass with cnMaestro™ cloud management. It simplifies operations with a converged network that spans from cloud to edge that optimizes multiple technologies, including

fixed wireless (3 GHz CBRS, 5 GHz, 6 GHz, 28 GHz and 60 GHz), indoor and outdoor Wi-Fi access points, switching, fiber infrastructure, Quality of Experience (QoE) and LiDAR-based coverage analysis. Cambium's ONE Network lets service providers focus on the network as a whole rather than the individual elements and deliver outstanding online experiences.

Find out more [on our website](#).



ABOUT CAMBIUM NETWORKS

[Cambium Networks](#) enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We deliver connectivity that just works.

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