



# ONE NETWORK for Service Providers



Connectivity That Just Works



# Expand Into New Markets. Maximize Customer Satisfaction. Minimize Costs.

Business and residential customers value reliable connectivity above pricing and throughput.

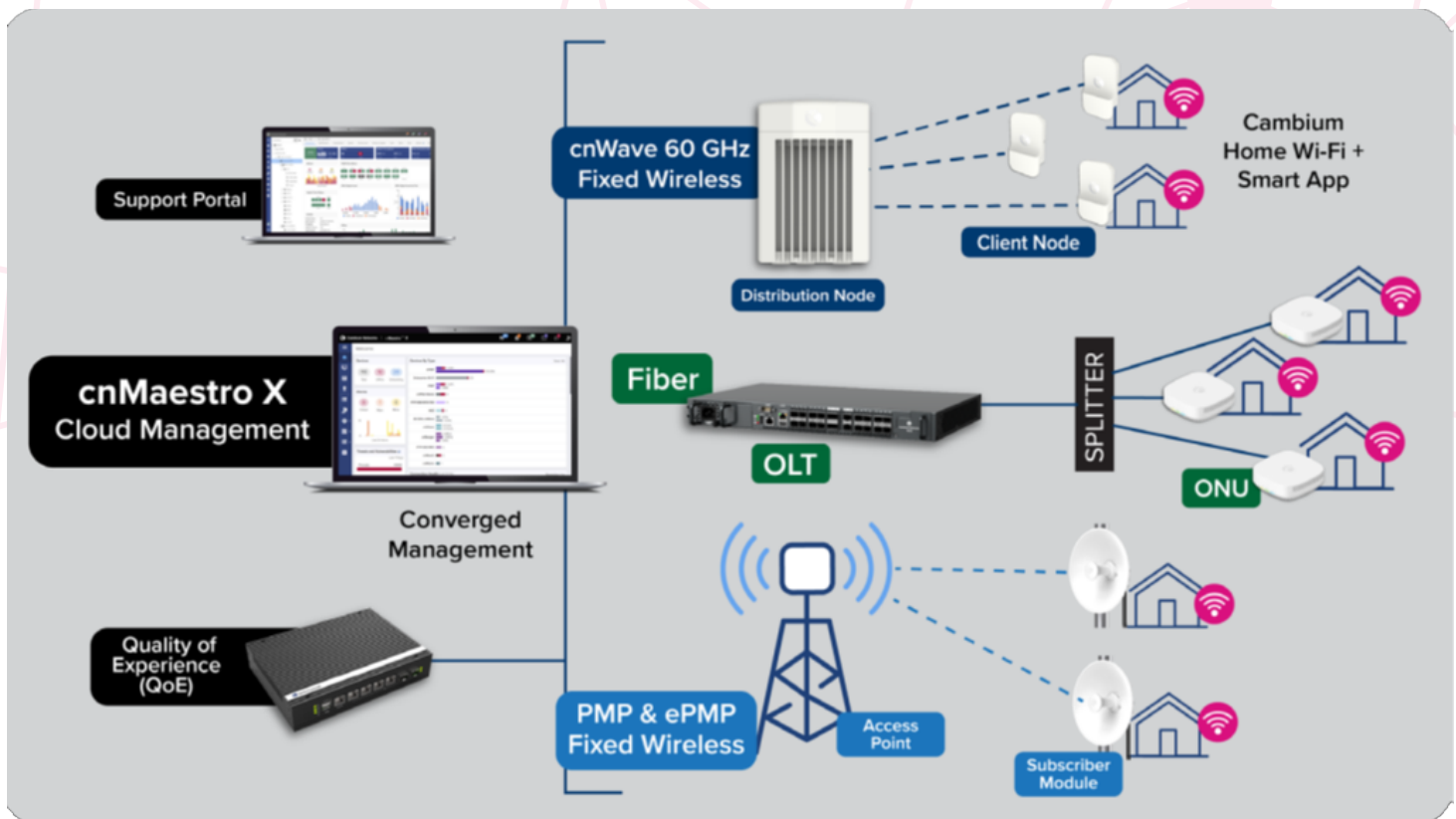
Service providers can differentiate and satisfy customers with Cambium Networks' solutions:

- Automation to simplify processes and deliver exceptional end-user experiences
- High-performance technology that spans the entire network: customer, edge, and distribution
- Solutions that deliver industry-leading low total cost of ownership (TCO)

## Superior Service. Low Price. Less Churn.

The ONE Network platform simplifies the process of delivering exceptional user experiences by automatically provisioning, managing, and monitoring different elements of the network from a single pane of glass with cnMaestro™ cloud management.

The solution spans from cloud to edge and optimizes multiple technologies to deliver a consolidated dashboard view. Service providers quickly identify issues and dispatch technicians to the right place the first time.



# Network Management: Cut Costs with Greater Visibility Into an Enhanced Network

Quickly see how the network is performing and identify bottlenecks and issues. cnMaestro cloud management offers elastic scalability to deliver secure, end-to-end network and wireless lifecycle management to simplify operations and ongoing maintenance.



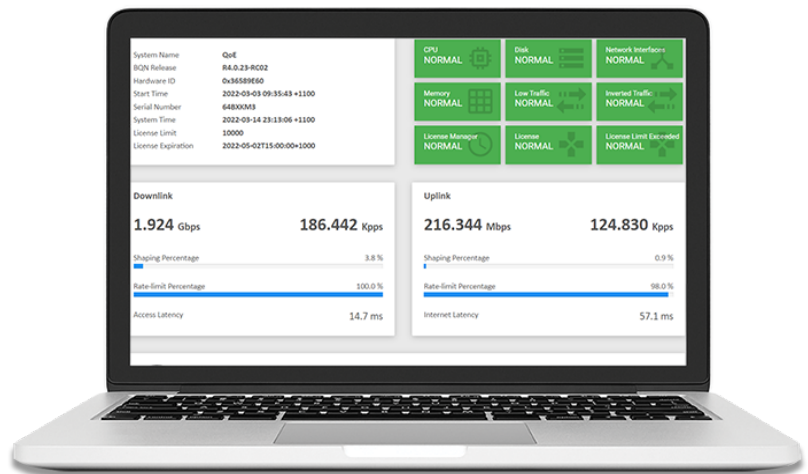
**“Single-pane, cloud-based management systems that span across various network and security devices make it easier for both enterprises and service providers to manage an IT system.”**

- Chris DePuy, Technology Analyst and Founder of 650 Group



Cambium’s Quality of Experience (QoE) service provides network-agnostic analysis that identifies underperforming hardware and optimizes the bandwidth used across any network.

- TCP traffic accelerates 15% on average
- Automatic Congestion Management reduces latency across the network by 20-30% during times of congestion
- Multi-criteria traffic shaping reduces overall peak network load by 30-40%



**“With QoE, we are getting a 30% reduction in support calls.”**

- Zirkel Wireless





# Distribution Layer: Focus on the Business Rather Than the Network

## Fiber

Cambium offers the most advanced PON technology for a complete end-to-end solution at a 30%–40% lower total cost of ownership. Planning, procurement, installation, and provisioning are simplified for broadband service providers.

Carrier-Grade Fiber OLT	Outdoor ONT	Indoor ONT
		
Uplink: 100 GbE, 40GbE, 25GbE, 10GbE (2x SPF28, 2x QSFP28) PON: Combo PON, GPON, or XGS-PON	LAN: 10/100/1000 GbE Auto MDI-X PON: GPON	LAN: 10/100/1000 GbE Auto MDI-X PON: GPON



## Fixed Wireless

Cambium Networks offers multiple fixed wireless options to fit the opportunity.

Point-to-Point Backhaul	Point-to-Multipoint Broadband Access
<ul style="list-style-type: none"> <li>• Multi-gigabit speed</li> <li>• Licensed and unlicensed frequencies</li> </ul>	<ul style="list-style-type: none"> <li>• Multi-gigabit speed</li> <li>• Licensed and unlicensed frequencies</li> <li>• CBRS and 6 GHz</li> </ul>

6 GHz spectrum will offer 850 MHz of new clean, low-noise floor channels. Cambium technology is ready for deployment now. The solution is currently active in more than 100 field verification projects, has completed the testing for Persistent Inquiry Approval (PIA), and is in regulatory lab testing with an Automated Frequency Coordination (AFC) supplier.



**“We are seeing 900 Mbps symmetrical out to 2 miles with the ePMP 4600. With the 5 GHz spectrum tapped out, ePMP 4600 will make it easy for us to roll out new packages and reach new business and residential customers as soon as the FCC gives us the green light.”**

- Jimmy Murphy, Engineering Director, Wispmetrics

# Subscriber Residence: Transform Troubleshooting with Advanced Home Wi-Fi


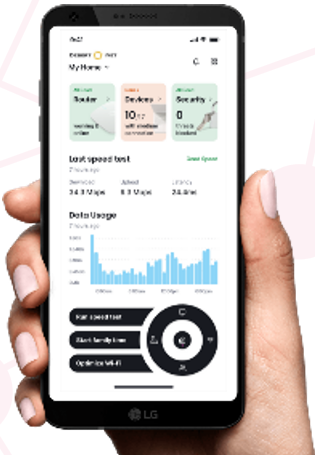
Broadband service providers report that 63% of subscribers call with Wi-Fi questions and 31% of trouble calls are related to the Wi-Fi router – a critical part of the network that the service provider may have no way to control.

Trouble ticket management costs time and money and dispatching a technician costs 9 times as much.

Reduce the time to troubleshoot and repair issues while also reducing field dispatches with the latest Home Router and a Subscriber Application.

## Value Delivered

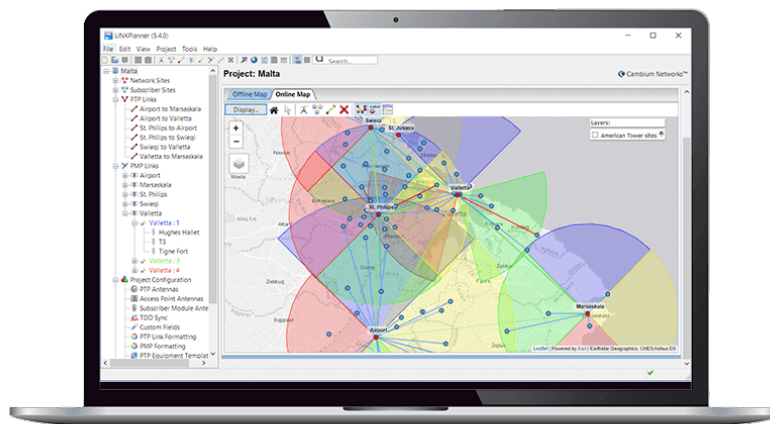
- Easily find and fix (sometimes automatically) common issues that typically trigger trouble reports
- Reduce the time to locate and fix network issues
- Automatically set up router or mesh in residential subscribers
- Prioritize technician activities by severity

RV22 Home Router	Subscriber Application
	
<ul style="list-style-type: none"> <li>• 802.11 a/b/g/n/ac/ax router with 5 GHz (3x3), 2.4 GHz (2x2) radios and 4xGbE RJ45 interface</li> <li>• High-performance transmit and receive parameters</li> <li>• Automatic multi-gigabit Mesh configuration</li> </ul>	<ul style="list-style-type: none"> <li>• Easy-to-use Android or iOS App</li> <li>• Speed tests</li> <li>• Wi-Fi optimization</li> <li>• Controls for access</li> </ul>

# Network Planning Made Easy

## LINKPlanner

- Model “what if” scenarios for fixed wireless technologies – based on geography, distance, antenna height, transmit power, and other factors – to optimize system performance before purchase
- Support PTP/PMP configuration with BOM creation and proposal generation tools
- Cloud-based application



## cnHeat

- Increase pre-qualification accuracy and single truck roll install success rates
- Analyzes radio frequency planning, predictions, and covered buildings for fixed wireless
- Uses LiDAR data to create precise coverage plans



**“We look forward to rolling out Gigabit speed plans in the entirety of our existing fixed wireless service network plus our prospective network expansion. Ultimately, this expansion of Gigabit fixed wireless will cover over four million households and businesses.”**

- Bill Baker, Founder and CEO, Nextlink Internet



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