# cnHeat Radio Frequency Predictions for Fixed Wireless

QUICK LOOK:

- Built upon Cambium Networks' expertise in fixed wireless radio frequency (RF) planning, propagation, and modeling as seen in LINKPlanner and integrated with LiDAR data down to one-meter precision
- Generates highly accurate RF predictions and derivative services that precisely represent the reality of the RF world
- Supports 2.3–7.2 GHz, 28 GHz, and 60 GHz
- Helps users prequalify customers, plan their networks and report coverage for BDC to the FCC
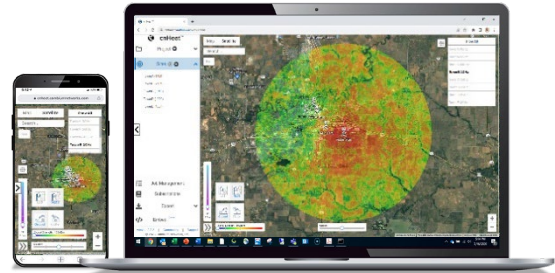
Highlights

- Best-in-class RF Prediction Software: Provides a customer prequalification view with resolution down to one meter covering a site radius of up to twelve miles and an install height slider from 0 ft to 80 ft.

- LOS / NLOS propagation model: Accurate predictions of coverage behind trees and buildings for all your prediction needs.

- Ease of Use: Customer service representatives can find the best place to install on any property (latitude, longitude, and height) in seconds.

- Operational savings: Improve successful install times and avoid failed installs.
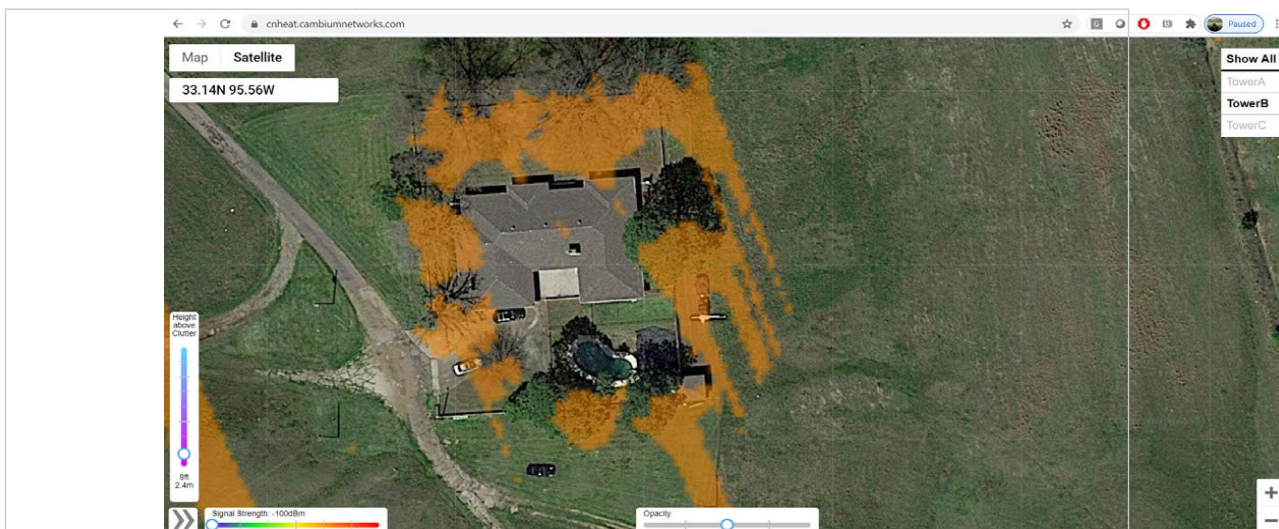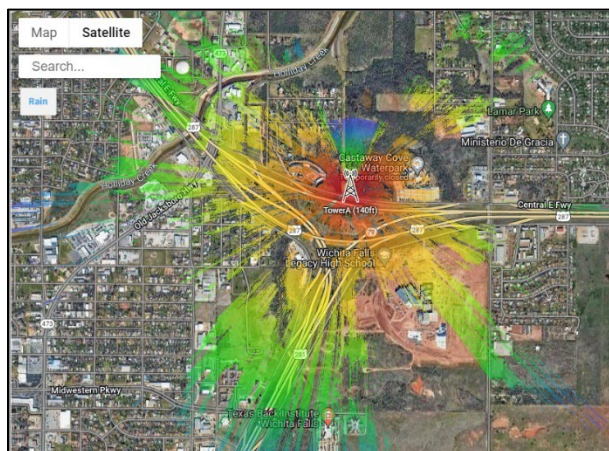
cnHeat™ Radio Frequency Predictions

Features
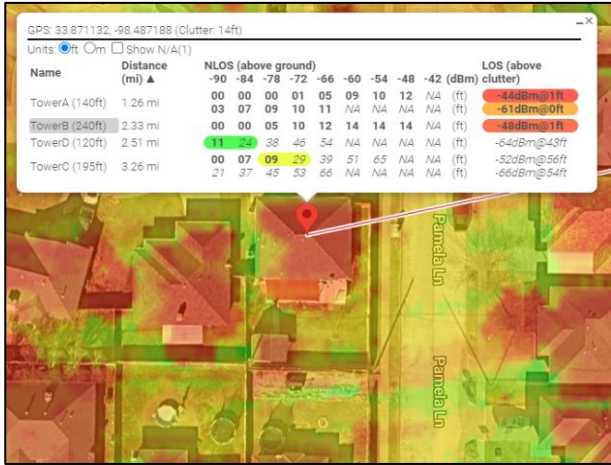
Location bubble shares latitude & longitude, clutter height, distance from towers, & coverage heights for LOS & NLOS.

Height & signal strength sliders allow dynamic control of coverage for the heat map.

28 GHz & 60 GHz support a dynamic selection of rain propagation models.

Prequalify your subscribers with high-resolution heat maps.

- Built-in AWS is -highly scalable and reliable.

- Uses one-meter or better resolution LiDAR data.

- Predictions are displayed at 1-meter resolution.

- The installation height threshold and signal strength threshold are dynamically configurable.

- The coverage display shows either signal strength or height.

- Trillions of RF prediction calculations are at the user's fingertips.

- User selects a location on a map with a cursor and a bubble appears:
    - Latitude and longitude
    - Height of clutter (e.g., building height or tree height)
    - Distance from AP sites
    - Install height required for LOS to each AP site
    - Install heights required for NLOS at various RSSI levels

- Users can "travel" to the location instantly via address, latitude, longitude, or common name.

- Rain or non-rain propagation for 28 GHz and 60 GHz are dynamically displayed.

- cnHeat is manufacturer-agnostic so you can plan Cambium equipment or third-party equipment.

- cnHeat provides support for coverage exports for BDC reporting to the FCC.

cnHeat™ Radio Frequency Predictions

Identify determines green circled home on the left has coverage for the desired install height above the roof, and the red circled home on the right does not. Location and addressing information are provided for the home on the left and all similar buildings.

Identify your subscribers with locations and addresses.

The user specifies the height of coverage above the roof or ground and the minimum RSSI level.

A summary of the total buildings covered is provided. A customer can receive:

- Location (latitude and longitude) for each building provided (worldwide)
- Address for each building provided (United States)

Target end customers based on these locations and addresses provided to users. Users can have locations provided at no charge to MarketBroadband.com, which will convert the locations to postal address data for a marketing campaign.

Best-in-Class Propagation Model
Propagation models reflect reality

The proprietary propagation model was built by Cambium Networks, known for its industry-leading wireless equipment and cutting-edge planning tools like LINKPlanner.

LOS / NLOS was developed to support the fixed point-to-multipoint experience.

Powered by High-Performance Computing

Trillions of calculations are needed to process the high-resolution LiDAR data and run predictions out to 12 miles at 1m resolution.

Calculations facilitating predictions are available instantly via cnHeat's user interface.

Parts List

Regular Sites (12-mile Range)

PS-MP3M3Y-RW	3-year subscription for a single regular site, 12 quarterly payments priced per quarter
PS-MP3Y-RW	3-year subscription for a single regular site paid up-front
PS-MP3M1Y-RW	1-year subscription for a single regular site, 4 quarterly payments priced per quarter
PS-MP1Y-RW	1-year subscription for a single regular site paid up-front
PS-MPSUP-RW	3-month subscription for a single regular site paid up-front

Micro Site (2-mile Range)

PS-uMP3M3Y-RW	3-year subscription for a single micro-site, 12 quarterly payments priced per quarter
PS-uMP3Y-RW	3-year subscription for a single micro-site paid up-front
PS-uMP3M1Y-RW	1-year subscription for a single micro-site, 4 quarterly payments priced per quarter
PS-uMP1Y-RW	1-year subscription for a single micro-site paid up-front
PS-uMPSUP-RW	3-month subscription for a single micro-site paid up-front

60 GHz cnWave

PS-MP1Y60-RW	1-year subscription for 60 GHz single regular site paid up-front
PS-MP3M1Y60-RW	1-year subscription for 60 GHz single regular site, 4 quarterly payments priced per quarter
PS-MP3Y60-RW	3-year subscription for 60 GHz single regular site paid up-front
PS-MP3M3Y60-RW	3-year subscription for 60 GHz single regular site, 12 quarterly payments priced per quarter

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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