Cambium Networks' PMP 450v Achieves Full FCC Certification, Enabling Superior Performance and Flexibility

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HOFFMAN ESTATES, Ill., June 20, 2024 /PRNewswire/ -- Cambium Networks (NASDAQ: CMBM), a leading global provider of networking solutions, today announced the full FCC and ISED certification of the PMP 450v Fixed Wireless Access Point and Subscriber Module, expanding its advanced connectivity solutions in the 6 GHz spectrum. PMP 450v is Cambium Networks' second fully accredited 6 GHz platform, joining the ePMP 4600 and ePMP Force 4625.

Many broadband operators face capacity constraints due to crowded 5 GHz spectrum. With this certification, service providers, enterprises, and industrial network operators can now cost effectively add broadband capacity to both new and existing 3 GHz and 5 GHz deployments. The 6 GHz unlicensed spectrum uses an Automatic Frequency Coordination (AFC) system that is also fully approved and operational.

The PMP 450v Access Point and Subscriber Module are designed to operate seamlessly across the 5 GHz and 6 GHz bands (up to 7.125 GHz), ensuring both backward and forward compatibility. With its ultra-wideband support of up to 160 MHz total channel bandwidth, the PMP 450v offers a substantial increase in capacity, enabling higher performance to more customers and flexibility in spectrum usage.

Key Features and Benefits

- **Backward and Forward Compatibility:** Protect existing investments while migrating to next-generation technology.
- **4x4 MIMO Access Point:** Enhanced performance with more bandwidth and multi-sector mode, supporting independent operation of 5 GHz and 6 GHz carriers.
- **Carrier Aggregation:** Flexibility in spectrum usage with different bandwidths to adapt to varying congestion levels in the 5 GHz and 6 GHz bands.
- **High Capacity and Low Latency:** Supports up to 1.2 Gbps capacity with latencies as low as 3–5 ms, ideal for business and residential connectivity.
- **Ultra-Wide-Band Support:** Up to 160 MHz total channel bandwidth.
- **Comprehensive Management:** Easily managed through Cambium Networks' cnMaestro ™ system, providing seamless provisioning, monitoring, and upgrades.
- **Network Planning:** Quickly design networks for optimal deployment and cost effectiveness with LINKPlanner and generate highly accurate RF predictions and derivative services that accurately represent the reality of the RF world from cnHeat.
- **3-year hardware warranty and support** from Cambium Networks.

Certification and Industry Impact
The certification of the PMP 450v underscores Cambium Networks' dedication to advancing wireless broadband technology. By achieving this certification, the PMP 450v ensures compliance with regulatory standards, offering a reliable solution for expanding network capabilities and enhancing service offerings.

"Cambium Networks' PMP 450v is a game-changer for network operators looking to maximize their spectrum resources while maintaining exceptional performance," said Morgan Kurk, president and CEO of Cambium Networks. "This certification is a testament to our ongoing commitment to innovation and excellence in connectivity solutions."

Automated Frequency Coordination – Simplified and at No Additional Cost
Cambium Networks equipment can operate across 850 MHz of the 6 GHz spectrum band allocated by the FCC and 950 MHz allocated by the Canadian authorities. Cambium Networks is working closely with and leveraging Qualcomm Technologies' turnkey Automated Frequency Coordination Suite.

Cambium Networks makes the AFC process transparent to the service provider. With the AFC interface built into the radio, the service provider can easily use the AFC service with no extra charge or hassle.

6 GHz Spectrum Availability Tool

The 6 GHz unlicensed spectrum in the United States and Canada requires each radio to connect to the AFC service. This interface is included in each 6 GHz radio and reports back which channels are available at the location where the radio is deployed. Cambium offers several options for an operator to obtain information on channel availability before even purchasing radio equipment. Either LINKPlanner or Cambium's stand-alone 6 GHz Spectrum Availability Tool will return information on the frequencies and power limits available at any location of the operator's choosing. By simply selecting the location where one intends to deploy 6 GHz, the tool responds with the channel and power level availability one could see when deploying the radio at that location.

For More Information

- Plan for this new spectrum with the Free 6 GHz Playbook
- Participate in the upcoming July 9th Webinar on the PMP 450v by registering here
- Download the PMP 450v data sheet here
- Where to buy

ONE Network for Service Providers
Cambium's ONE Network provides a complete networking infrastructure portfolio along with cnMaestro X single-pane-of-glass management for the entire network that enables enterprises and service provider operators to simplify operations with a secure converged network. With a comprehensive view from edge to cloud, network operators can easily manage ONE network fabric of multiple types of technologies from a central location. Technologies include:

- Indoor, outdoor and wall plate Wi-Fi access points, including Wi-Fi 6/6E
- Indoor and hardened switches
- Security and SD-WAN solutions
- Fixed wireless point-to-point and point-to-multipoint solutions at 3 GHz CBRS, 5 GHz, 6 GHz, 28 GHz, and 60 GHz
- Quality of Experience (QoE) optimization of end user experiences

Find out more in the Cambium Networks Overview brochure

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 make connectivity that just works.

Media Contact:
pr@cambiumnetworks.com

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