



THEATER-PROVEN AND AGENCY-VETTED BROADBAND SOLUTIONS

Cambium Networks' Point-to-Point (PTP) 600 Series Solutions are Tested and Certified for the DoD as well as Federal Civilian and Law Enforcement Agencies

The process of selecting the optimum wireless broadband solution for your specific civilian or military applications, infrastructure, environment, and budget is extremely complex and time consuming. No matter how diligently you investigate and analyze options, there is always that nagging doubt: Are we selecting the best system? Because it is virtually impossible to predict all the performance variables and potential pitfalls, such doubt is normally not put to rest until you successfully deploy and operate the system.

MORE REASSURING DECISIONS

Third-party input can provide you with greater confidence during your system-selection process. Getting references from trusted colleagues is normally a big help in determining how a system will perform in day-to-day operations like yours. Industry- and application-specific validations and certifications are also a big help in determining the suitability of a particular solution.

At Cambium Networks, we know how important such credentials can be when choosing a microwave backhaul solution. So, we have made a significant commitment and investment to provide secure in-theater and CONUS (continental United States) communications for the Department of Defense (DoD) as well as Federal Civilian and Law Enforcement agencies.

UC APL CERTIFICATION

After completing an intense two-year development and testing program, the Cambium PTP 600 Series Wireless Ethernet Bridges met and exceeded the Unified Capabilities Certification Office's (UCCO's) certification requirements. As a result, PTP 600 systems are listed on the DoD's Unified Capabilities Approved Products List (UC APL). The PTP 600 is the first and, at present, the only microwave backhaul solution to achieve UC APL certification.

So, you can deploy PTP 600 radios with supreme confidence that the systems will perform as promised. The UC APL listing can be confirmed at <https://aplists.disa.mil/processAPList.do>.

PTP 600

- 4.5 and 4.8 GHz
- Long-distance LOS and NLOS
- Up to 300 Mbps
- UC APL and FIPS 140-2
- JF-12/SPS
- MIL-STD 461

PTP 800

- 7 and 8 GHz
- Up to 736 Mbps
- Ethernet-based
- FIPS 140-2
- Ultra-low Latency
- 1+1 Hot Standby and 2+0 Redundancy

FIPS 140-2 VALIDATION

Federal Information Processing Standards (FIPS) 140 validation is mandatory for UC APL certification. So, our PTP 600 systems were FIPS 140-2 validated prior to applying for UC APL certification. In addition, our PTP 800 Licensed Microwave solutions have achieved FIPS 140-2 validation. The process involved cryptographic algorithm evaluation via the National Institute for Standards and Technology (NIST), independent source code inspection by a NIST-certified test house, and extensive cryptographic self tests. Based on the successful results, PTP 600¹ and PTP 800² systems received FIPS 140-2 Level 2 validation for cryptographic algorithms, key security, and tamper evidence. This validation gives DoD and Federal network operators full confidence that PTP 600 and PTP 800 systems will safeguard their informational assets.

RADIO FREQUENCY CERTIFICATIONS

PTP 600 systems have earned JF-12/SPS certification, ensuring U.S. military and civilian agencies that the radios conform to all applicable spectrum management regulations and that these agencies can confidently deploy PTP 600 systems for wireless connectivity in large-scale networks. In addition, PTP 600 radios have passed MIL-STD 461 testing for electromagnetic interference, permitting these radios to be placed shipboard within the U.S. Navy.

SOLUTIONS THAT PERFORM AS PROMISED

PTP 600 Series radios are wireless Ethernet bridges encased in ruggedized, commercial-grade metal cases. These reliable, high-performance radios operate in the 2.5, 4.5, 4.8, 4.9, 5.4, 5.8, and 5.9 GHz radio frequency (RF) bands, providing Internet Protocol (IP) data, voice, and video communications. The systems can perform flawlessly in non-line-of-sight (NLOS) and high-interference environments, over long-distance line-of-sight (LOS) paths, over water and desert terrain, and in extreme weather conditions.

Our PTP 800 Series solutions are our Ethernet-based, traditional licensed microwave solutions. Operating in the 6 to 38 GHz licensed bands, as well as the NTIA-compliant 7 and 8 GHz frequencies, PTP 800 radios offer up to 736 Mbps

(full duplex) throughput, very low latency, and powerful redundancy protection.

Thousands of Cambium Networks PTP 600 and PTP 800 Series radios have been deployed throughout Federal civilian and military agencies. In fact, the 4.5 GHz PTP 45600 radios have become a major backhaul choice for DoD and Federal agencies.

PROVEN AT-HOME AND IN-THEATER

Our PTP 600 and PTP 800 Series systems deliver high-capacity, super-reliable connectivity in some of the most adverse conditions on the planet. As a testament to their performance excellence, our PTP 600 radio is the "radio of record" for U.S. DoD situational awareness programs. These Commercially available Off-the-Shelf (COTS) systems have been deployed in a large number of government agencies, including the U.S. Army, Air Force, Marines, Navy and Coast Guard, U.S. Marshals, NASA, U.S. Department of State, and FEMA. Typical applications being served by these systems include:

- I3MP/IMOD base modernization
- Battlefield communications
- Persistent awareness
- Border control and surveillance
- Telemetry and Land Mobile Radio (LMR) backhaul
- Law enforcement
- Test range communications
- Ship-to-shore and ship-to-ship communications
- WiMAX and LTE backhaul
- Drop-in wireless communications
- Building-to-building and campus connectivity from brigade to battalion and battalion to company

SOLUTIONS YOU CAN RELY ON

Whether you are tasked with delivering essential services at home or managing tactical communications in theater, your communication network has to perform flawlessly in virtually all situations and geographies. When you choose a PTP 600 or PTP 800 solution, you can be confident that your system will give you years of excellent performance. But, don't just take our word for it. Check our credentials.



PTP 600 Connectorized



PTP 600 Integrated



PTP 600 Powered Indoor Unit



PTP 800 Outdoor Unit



PTP 800 Compact Modem Unit

¹ PTP 600 FIPS 140-2 validation may be confirmed at: <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/140val-all.htm#1515>

² PTP 800 FIPS 140-2 validation status may be confirmed at: <http://csrc.nist.gov/groups/STM/cmvp/inprocess.html>