



# THE LOWEST COST OF ENTRY FOR THE HIGHEST QUALITY WIRELESS BROADBAND

For virtually every telecommunications operator and enterprise in today's global economy, access to high-speed communications is key to rapid and sustained growth. Today's broadband communications networks are the backbone of businesses that rely on the capture, analysis and dissemination of critical information. That's why it's no surprise that despite the uncertain economic environment a great many organizations are planning to extend and expand their communications networks to help them meet their business goals. Many, however, face one major obstacle: cost. Cambium's PTP 100 Series Point-to-Point wireless solutions address the need for increased broadband capacity and capability at more affordable prices.

## **COSTLY WIRELINE EXPANSION**

Network operators and enterprises alike often first consider meeting their expansion or backhaul needs by adding additional wireline connectivity to their existing networks. Many are in for a shock, however, when they see the price tag of adding new wired capability. The cost, for example, to deploy new wireline service to another building or outlying facility can be enormous. And that's not the only cost issue. Many organizations are also discovering that the monthly recurring lease costs of adding additional T1/E1 lines can also strain pared-down budgets.

## **CAMBIUM'S COST-EFFECTIVE PTP 100 SERIES**

The answer is the highly affordable PTP 100 Series Point-to-Point wireless solution from industry leader Cambium Networks. The PTP 100 Series of wireless Ethernet bridges provides a powerful new opportunity for network operators and enterprises to expand their present and future broadband communications capabilities much more efficiently and affordably. PTP 100 solutions significantly lower cost of entry, but that's just the beginning. As communications needs grow, the PTP 100 Series also offers a simple, cost-conscious software key-based upgrade path to higher capacity to support growth and increased voice, video and data requirements.



## **SIMPLE, AFFORDABLE KEY-BASED UPGRADES**

The PTP 100 Series' software key-based, over-the-air upgrade system is a highly affordable and flexible solution for increasing throughput and facilitating network and business growth. An enterprise can upgrade a 2 Mbps backhaul to 4 Mbps by purchasing a low-cost software key. An additional key can be purchased to upgrade the network to 7.5 Mbps. A third key is available that will upgrade the system to 14 Mbps aggregate throughput.

# EXCEPTIONAL PERFORMANCE AND RELIABILITY TODAY, TOMORROW AND BEYOND

The PTP 100 Series provides the ultimate support for network operators and enterprises as they begin to succeed and grow. In addition to its remarkably low initial costs, the PTP 100 Series also offers the scalability of simple, affordable software key-based license upgrades that provide additional performance and capacity at exactly the right time.

## FLEXIBLE UPGRADE OPTIONS

Flexibility and scalability are the hallmarks of the PTP 100 Series. An organization can begin with a high quality system that delivers 2 Mbps of aggregate throughput at one of the lowest initial costs in the industry. When upgrades are needed, the user simply purchases software license keys that allow incremental over-the-air upgrades to 4 Mbps or 7.5 aggregate data rates. Licenses that deliver 14 Mbps are also available. Upgrades are fast, easy and remarkably affordable.

## MAXIMIZED PERFORMANCE

Although the PTP 100 Series has a remarkably low cost of entry, the network provides exceptionally high performance, high reliability and many other leading-edge system benefits, including:

- **SPECTRUM CHOICES.** The PTP 100 provides wireless broadband access in a wide range of spectrum options including the 2.4, 5.2, 5.4 and 5.8 GHz unlicensed frequencies.
- **EXTENDED RANGE.** When using a reflector, the PTP 100 Series can deliver ranges of up to 35 Miles (56 kilometers) in Line-of-Sight environments.
- **SECURITY OPTIONS.** With its built-in over-the-air DES encryption, and the available AES encryption option, the PTP 100 makes code breaking virtually impossible and delivers data with optimum reliability and security.
- **INTERFERENCE RESISTANCE.** The PTP 100 Series offers powerful multi-level modulation schemes that help penetrate signal path obstacles, mitigate against interference from other systems and avoid self-interference.
- **FASTER DEPLOYMENT.** Because it needs none of the expensive trenching usually necessary for a wireline network expansion, the PTP 100 Series can be deployed more cost effectively in a matter of hours or days, rather than weeks, months or even years.

## APPLICATIONS

The PTP 100 Series enables organizations to establish reliable and secure point-to-point wireless links for bandwidth-intensive applications across a wide variety of environments. The PTP 100 provides flexible options that cost-effectively deliver consistently high performance in Line-of-Sight (LoS) situations. Typical applications include:

- **T1/E1 REPLACEMENT.** PTP 100 Series wireless solutions are quickly becoming a preferred choice for the replacement of costly leased T1/E1 phone lines. Replacing public phone lines with a private broadband network also provides more control over performance, availability and price.
- **IP-BASED CONNECTIVITY.** The PTP 100 provides IP-based data connectivity that helps unite business, educational, medical and other environments. Secure, reliable point-to-point links can connect buildings, outlying locations and remote facilities simply, quickly and cost-effectively.
- **CELLULAR BACKHAUL.** For virtually any network operators needing more backhaul capacity, the PTP 100 Series offers highly reliable, low latency solutions at very affordable prices.
- **VIDEO SURVEILLANCE.** Video surveillance is becoming an increasingly important safety and productivity tool. The PTP 100 Series is a low-cost, scalable solution for applications such as monitoring access to facilities and providing 24/7 visibility of remote and high-activity locations.

The PTP 100 is also being used to provide productivity benefits and cost savings in numerous other applications such as rural connectivity, temporary and emergency networks, E-Learning, telemedicine and many more.

The PTP 100 Series leverages Cambium's wireless industry leadership, innovation and worldwide customer service and support.

## ABOUT CAMBIUM NETWORKS

Cambium Networks, formerly part of Motorola Solutions, is an independent company providing world-class wireless broadband and microwave solutions for military, government, municipal and enterprise customers around the world. Cambium Networks currently has more than 3.5 million products deployed and provides reliable, secure, cost-effective connectivity in thousands of networks in over 150 countries.

