



# MOTOROLA'S CANOPY™ PLATFORM BRINGS WIRED-QUALITY RELIABILITY AND SECURITY TO WIRELESS BROADBAND.



The Canopy wireless broadband system enables you to extend your broadband networks faster and more cost-effectively than with wired technology, with virtually no drop-off in quality of service or security.



# Extend Coverage And Expand Services With Wireless DSL That Complements Your Existing Network.

In today's fast-paced communications marketplace, strong competitors are constantly vying for both your existing subscribers and your targeted customers. To stay competitive, whether you're a carrier or cable operator, you must be able to extend your systems and expand your services quickly, simply and cost-effectively. Just as important, your extended networks must be able provide the high levels of reliability and security today's customers demand. The Motorola Canopy platform is the proven wireless broadband system that helps you do it all.

## **Wireless Broadband Solution**

The Canopy wireless broadband system allows you to leverage powerful radio technology to provide high-speed access. Canopy wireless technology has proven itself to be one of the industry's most reliable solutions for extending networks and expanding services. Operators all over the world are taking advantage of the system's exceptionally low equipment and deployment costs to reach more customers more rapidly and to offer new services, grow revenues and increase profitability.

## **More Customers, More Satisfaction**

The Canopy platform enables operators of all sizes to attract more customers and increase customer satisfaction. The system helps create a compelling competitive advantage by making deployment and delivery of extended broadband access easier and faster than ever before. Equally important, Canopy technology's inherent interference-resistance provides clear communications to all customers, even if they are on outer edge of the network, and even if the network is fully populated.

## **Effective and Cost-Effective**

The Canopy platform is built to the exacting quality standards the industry demands. It provides the carrier-grade toughness, high performance, scalability and ease-of-use to extend coverage, expand services, improve security and increase return on investment (ROI). And it does so without significant investment in infrastructure, subscriber equipment, RF licenses or deployment expenses.

## **Complementary Technology**

Intelligent protocols streamline the deployment and operation of wireless Canopy networks of all sizes. A simple network design allows the system to complement your existing network, and makes it exceptionally easy to install. There is no need to run overhead or in-ground wire, install microwave or software. The equipment is intuitive and efficient, providing built-in installation and deployment assistance that makes it faster to get up and running... often in a matter of hours or days instead of weeks or months.

## **Unlimited Scalability**

When your capacity needs increase, the Canopy solution is scalable to accommodate changing requirements, wider geographic areas, larger user populations and higher traffic volumes. Thanks to the system's high tolerance for interference and its directional antennas, adding new transmitters creates more capacity—not more interference.

## **Global Support**

When you deploy the Canopy platform, you're also deploying Motorola's more than 75 years of radio and communications expertise. Motorola empowers each customer with our knowledge and experience by forging a long-term relationship that assures you of exceptional support.

The basic building blocks of the Canopy system are compact, easy to handle, simple to install and unobtrusive. The Canopy AP cluster includes the Access Point (AP) module and the Cluster Management Module (CMM). The Canopy Backhaul (BH) module delivers an Internet connection to your AP Cluster from a remote location. Also available is the Bandwidth and Authentication Manager (BAM) which allows operators to vary the bandwidth to individual users. Each AP unit can serve up to 200 Subscriber Modules (SM).



# The Canopy System Helps Accelerate Deployment Without Accelerating Costs.

Today's communications marketplace is crowded with broadband access alternatives. But no system can match the Motorola Canopy platform's combination of advanced technology, simplified configuration, high performance, rapid deployment and remarkable cost effectiveness.

## Flexible Configuration and Integration

The Canopy system offers configuration options that meet and exceed the expectations of operators and their customers. The Canopy system offers flexible configuration options to meet the needs and expectations of different customer communities and enterprise environments. As a point-to-multipoint system, the Canopy platform is an exceptionally efficient and affordable community, small business or corporate application. As a point-to-point backhaul application, it is a powerful dedicated data link for enterprise environments of all kinds. In addition, the system includes interfaces that enable it to easily integrate with standard network management tools and billing systems, as well as diagnostic capabilities you'll need to remotely monitor the network. Detailed performance specifications can be found at [www.motorola.com/canopy](http://www.motorola.com/canopy).

## Premier Performance

The Canopy solution delivers superior performance using a modulation scheme that improves the quality of data delivery and mitigates interference from other systems. The system's wireless signals are highly effective in penetrating obstacles and avoiding obstructions, making it as efficient in dense urban environments as it is in suburban areas or rural locations. The Canopy platform provides broadband access in a wide variety of spectrum choices, ensuring exceptional broadband performance no matter which spectrum is best for your network.

## Enhanced Security

Motorola's Canopy platform offers enhanced security with over-the-air DES (Data Encryption Standard) encryption. Importantly, it is also available with AES (Advanced Encryption Standard) capabilities, which provide 128-bit encryption, to ensure secure data delivery and exceptional reliability. That's significant, because many customers—such as financial institutions, healthcare networks and municipalities—virtually always specify AES. With AES encryption, it would take approximately 149 trillion years—that's older than the earth itself—to crack a code.

## An Exceptional Internet Experience

The Canopy platform's upload and download speeds are as fast as or faster than virtually every other service available today. The point-to-multipoint Canopy system offers up to 7 Mbps (aggregate data rates) and the point-point system delivers 33 Mbps (aggregate data rates) to your users now. Of course, upload and download speeds are affected by several factors so actual speeds may vary, but the potential to offer an incredible broadband experience is inherent in the Canopy system.

The Canopy wireless broadband platform is designed to help carriers and cable operators extend and augment their networks more quickly and cost-effectively than with wireline... while maintaining wireline-quality performance and security. For more information about how the Canopy system can extend your network, expand your services, increase your customer base, improve customer satisfaction, provide competitive advantage and deliver outstanding ROI, call our universal number **800-795-1530** or in the U.S. **866-515-5825**, and visit us at [www.motorola.com/canopy](http://www.motorola.com/canopy).



## THE CANOPY SYSTEM HELPS INCREASE REACH, REVENUE AND ROI ACROSS A WIDE RANGE OF APPLICATIONS.

**Network Extensions.** The Canopy platform enables operators to extend existing networks without the high cost of traditional network equipment and the expense of laying new copper or cable.

**Low-Risk Market Testing.** When you want to test market feasibility, the Canopy platform can be used to deploy broadband service quickly and at low cost, enabling you to measure profit potential before investing in extension of a wireline or cable system.

**Remote Area Service.** When difficult terrain and long distances make extending a wireline or cable network cost-prohibitive, the Canopy system provides a speedy, cost-efficient solution for capturing and serving customers in remote locations.



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