



MOTOROLA
intelligence everywhere™

WIRELESS BROADBAND DESIGNED FOR ENTERPRISE ENVIRONMENTS



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.





A New Spectrum of Wireless Broadband Communications for the Enterprise

Today's broadband technology offers significant opportunity for enterprise environments of all kinds. The business benefits of broadband communications and Internet access are easy to see. Broadband can unite corporate and institutional campuses and locations. Promote communication, information sharing and collaboration. Tighten security and increase safety. Improve employee and customer relations. And much more.

The challenges of setting up an effective broadband system, however, have always been significant: cost, complexity and time. From purchasing spectrum licenses to designing, installing and maintaining complicated and often cumbersome networks, the process has been expensive, time-consuming and daunting. Until now.

Wireless Broadband

The Canopy™ system, Motorola's innovative wireless broadband solution, brings powerful radio technology to enterprise communications applications. The Canopy wireless platform makes deploying and delivering low-cost broadband access faster and easier than ever before. It provides the performance, versatility, ease-of-use and affordability that enable enterprise environments—including corporate, municipal, health-care, education and more—to improve communication, productivity, security and return on investment (ROI).

An Affordable Solution

The Canopy wireless broadband solution operates in the Unlicensed National Information Infrastructure (U-NII) spectrum of the 5.25-5.35GHz and the Industrial Scientific and Medical (ISM) spectrum 902 – 928 MHz, 2.400 – 2.483 GHz and 5.725 – 5.850 GHz, so there is no need for spectrum acquisition or site licensing. Because the Canopy solution is wireless, start-up costs are more affordable than virtually any other connectivity options. In addition, the Canopy system reduces monthly recurring cable or T1/E1 costs because there is no need to go through phone or cable networks.

Simple Installation and Network Configurations

A simple network design makes the Canopy solution easy to install. There is no need to run overhead or in-ground wire, install microwave or software. The equipment is streamlined, with built-in installation and deployment assistance, making it faster and easier to get up and running. A single-site point-to-multipoint Canopy system can deliver up to 7 Mbps of payload while the point-to-point system can deliver up to 33 Mbps of payload. What's more, the Canopy system includes interfaces that enable it to easily integrate with standard network management tools and systems, as well as diagnostic capabilities you'll need to remotely monitor the network.

Inherent Flexibility and Scalability

The Canopy solution can be adapted to fulfill a wide range of enterprise needs. The point-to-multipoint application can serve numerous enterprise locations of virtually any size. The backhaul application can serve as a dedicated data link for the enterprise community.

Intelligent protocols make the deployment and operation of a large wireless Canopy network easy and cost-effective. 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.

The Motorola Canopy™ Wireless System Is One of the Fastest, Most Secure and Affordable Enterprise Broadband Communications Solutions.

Unlike the myriad of solutions available today, the Motorola Canopy solution delivers with ease. Upload and download speeds are as fast or faster than virtually every other service available today; the point-to-multi-point Canopy system can offer up to 7 Mbps (aggregate data rates) to your users now. Of course, upload and download speeds on any network are affected by several factors so actual speeds may vary, but the potential to offer an incredible broadband experience is inherent in the Motorola Canopy system.

The Motorola Canopy Subscriber Module (SM) is compact and easy to install in outdoor locations; there's no obtrusive equipment. The Canopy Access Point Module (AP) easily interfaces with your existing Local Area Network (LAN) equipment via standard Ethernet.

Performance and Security

The Canopy solution delivers superior performance using a modulation scheme that improves the quality of data delivery and mitigates interference from other wireless systems. Motorola's Canopy platform offers security with over-the-air DES (Data Encryption Standard) encryption and is available with AES (Advanced Encryption Standard) capabilities, which provide 128-bit encryption to ensure secure data delivery and exceptional reliability. With AES, it is virtually impossible to crack a code (estimates suggest that it would take about 149 trillion years—a time period older than the earth itself).

For more information about how the Canopy wireless broadband system can improve communications, productivity and ROI in your enterprise, contact your Motorola authorized dealer.

How the Canopy System Is Helping Enterprises Boost Productivity While Saving Time and Money.

A state-wide cardiovascular association uses 10 Mbps point-to-point Canopy system to read medical images, share information and collaborate on diagnostics and treatment from various locations.

A major mid-western university utilizes a Canopy solution to provide broadband wireless access to the university network for staff and faculty living off campus.

Within 24 hours, a Texas company installed a Canopy system that linked emergency personnel working to recover debris from the Space Shuttle Columbia tragedy.

A major airline and a security company interfaced a Canopy solution with 60 video cameras to streamline and improve monitoring of four parking lots at an international airport on the east coast.

A northern state's Department of Transportation uses a Canopy point-to-point system to monitor snow conditions on certain highways via live motion video cameras. The system relays data wirelessly to a command center and saves time and increases safety by automating the process of closing gates and notifying drivers.

The basic building blocks of the Canopy system make it ideal for enterprise and campus environments. The **Canopy AP cluster** includes the **Access Point (AP) modules** and the **Cluster Management Module (CMM)**. The **Canopy Backhaul (BH) Module** delivers an Internet connection to your AP Cluster from a remote location, eliminating the need for expensive T1/E1 lines. Also available is the **Bandwidth and Authentication Manager (BAM)** which allows companies to vary the bandwidth to individual users. Each AP module can serve up to 200 **Subscriber Modules (SM)**.





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.

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