

*MOTOROLA CANOPY™  
WIRELESS BROADBAND*

*ADVANTAGE PLATFORM  
CARRIER DATASHEET*



## **EXTEND YOUR NETWORK AND EXPAND SERVICES WITH MOTOROLA'S CANOPY ADVANTAGE™ PLATFORM**

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, cable operator or Internet Service Provider (ISP), 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 to provide the high levels of reliability and security today's customers demand. The Motorola Canopy Advantage access system can help you do it all.

### **Canopy Advantage Platform**

The Canopy Advantage platform is the next generation of Motorola's wireless broadband access infrastructure. With this new platform, Canopy equipment users will be able to simultaneously enjoy the strengths of the original Canopy product coupled with dramatic improvements in throughput and latency in the Canopy Advantage and ultimately, as it becomes available, the features of WiMAX in the unlicensed frequency band.

The Advantage platform is based on software defined radio technology which removes the constraints imposed with traditional hardware designs or chip sets. As requirements change and standards evolve, the Canopy Advantage platform can support new functionality and enhancements via software upgrades. The Canopy Advantage platform will continue to provide the industry's highest level of interference tolerance, security, scalability, signal reliability and ease of installation and also enables:

- **High Performance:** Effectively reduces latency by one-third (from approximately 20 milliseconds to 5 to 7 milliseconds)
- **Lightning Fast Speeds:** Essentially doubles throughput of a Canopy subscriber module and delivers data rates in excess of today's DSL and cable networks of 7 Mbps and with the new Canopy Advantage SM the throughput doubles to 14Mbps to a single user
- **True Quality of Service:** Enables operators to provide differentiated levels of service using Committed Information Rate (CIR) and Maximum Information Rate (MIR)
- **Comprehensive Multi-Services Platform:** An ATM frame structure uses small frame sizes which reduce retransmission times and provides for low latency - a critical component for delivering high quality services such as VoIP and online gaming
- **Seamless Integration:** All subscriber modules currently in the field can easily be upgraded, via software download, to take advantage of the benefits of the Advantage platform when used with a Canopy Advantage Access Point

### **Comprehensive Migration Path to Unlicensed WiMAX**

Motorola's vision includes the delivery of a WiMAX compliant Canopy access point for the 5.8 GHz frequency band. The Canopy WiMAX access point will be capable of simultaneously operating Canopy's best-in-class interference mitigation techniques, currently available in the Canopy system, as well as OFDM - as dictated by the 802.16-2004 standard - in the 5.8 GHz frequency band. This means a Canopy WiMAX access point will be capable of communicating with subscriber modules from the Canopy, Canopy Advantage and Canopy WiMAX platforms as well as with third party WiMAX Customer Premise Equipment (CPE).

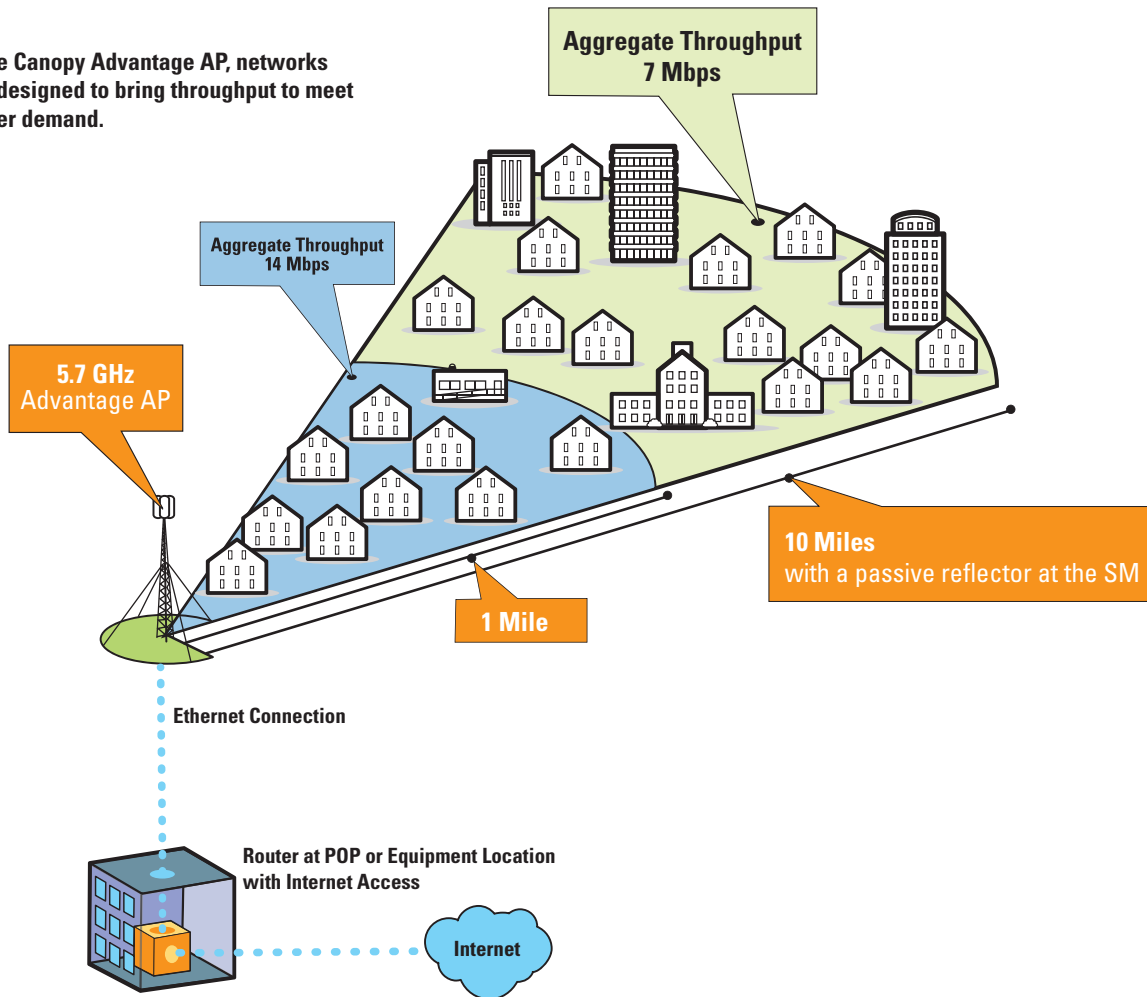
The Motorola Canopy WiMAX products are envisioned to embody the same "look and feel" as the original Canopy products. This is not a chance event! Motorola anticipated what is now called WiMAX in the late 1990s, and embarked upon a product development cycle that now enables our WiMAX product to be ahead of the competition, a great benefit to a common carrier with time-to-market challenges.

One might ask, "Why is this important?" Quite simply, WiMAX based OFDM systems offer considerable benefits in terms of speeds and throughput but can come at a cost in their ability to effectively mitigate interference. While this is not an important consideration in

licensed frequencies where the spectrum is allocated for very specific usages, it is extremely important in unlicensed frequencies where interference can easily cripple a system that is not effectively protected. Motorola's approach assures that our customers can take advantage of the benefits of both WiMAX and the Canopy system's superior interference techniques which ensure an outstanding end user experience.

With the Advantage platform, Canopy equipment users will be able to enjoy all of the strengths of the Canopy Advantage and Canopy WiMAX platforms (as they become available) at the same time, under the same access point, the same frequency and the same tower - essentially, a single wireless access infrastructure serving your broadband needs. Today, operators around the world can deploy the Canopy Advantage system with the knowledge that Motorola is providing a smooth migration path that will take them to WiMAX, if desired, while protecting the investment in the customer premise equipment.

**With the Canopy Advantage AP, networks can be designed to bring throughput to meet customer demand.**



**Canopy Advantage Platform is also available in: 900 MHz, 2.4, 5.2 and 5.7 GHz**

For more information about how the Canopy system can extend your network and services, provide competitive advantage and outstanding ROI, call 866-515-5825 in the U.S. — 800-795-1530 internationally or visit us at [www.motorola.com/canopy](http://www.motorola.com/canopy)