

MOTOROLA CANOPY™  
WIRELESS BROADBAND

ADVANTAGE™ PLATFORM  
ACCESS POINT



*Twice the Speed to a Single SM  
Latency Reduced by 70%  
VoIP Ready*

## Profitable Broadband Services Now and in the Future with The Canopy™ Advantage™ Platform AP

The Motorola Canopy Advantage Platform enables wireless broadband service providers to expand into competitive markets with the best broadband wireless platform for Data and Voice over Internet Protocol (VoIP). Network operators can increase revenue from existing users and add subscribers with attractive high-throughput offerings.

Now offering 7 Mbps and growing up to 14 Mbps throughput in point-to-multipoint distribution networks at 5 - 7 msec of latency, the Canopy Advantage platform provides unprecedented broadband wireless service at performance levels associated with cable and fiber technologies. Network Operators can also provide Committed Information Rate (CIR) and Virtual Local Area Network (VLAN) enhanced services with Canopy Advantage Access Point (AP).

### CANOPY ADVANTAGE AP BENEFITS

- High Throughput
- Low Latency
- Control Functions
- Software Defined Radio

#### Develop and Grow Your Business Now

With Canopy Advantage technology, network operators can compete and win against other broadband service alternatives.

#### Enhanced Performance

- **Increased Throughput** - Canopy Advantage modules offer network operators a dramatic increase in throughput to an individual subscriber. With the Canopy Advantage Subscriber Module (SM), the Advantage AP can provide up to 14 Mbps throughput in point-to-multipoint sectors.
- **Lower Latency** - The Canopy Advantage AP offers reduced latency, which enables many enhanced broadband services. In most modules, the latency has been reduced from 20 msec to ~6 msec. This threefold reduction permits the Canopy system to support VoIP and on-line gaming.

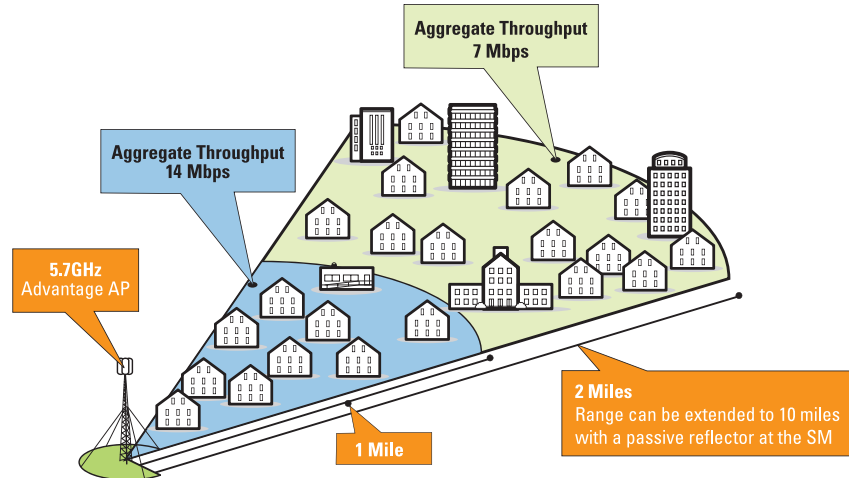
#### Enhanced Control of the Network

- **Committed Information Rate (CIR)** – Network operators can meet Service Level Agreements (SLA) and configure minimum throughput to all subscribers in the sector.

#### Protect Your Investment

- The **Software Defined Radio** is not dependent on a specific chip set and is upgradeable to add new features. Network operators can extend the life of the system through software enhancements.
- **Compatibility** - Modules are compatible with all currently installed Canopy Subscriber Modules, Cluster Management Modules, and Bandwidth and Authentication Managers. No CPE equipment is obsoleted or needs to be serviced.
- **Goal: Migration Path to Unlicensed WiMAX®** - Motorola is a member of the WiMAX Forum and intends to meet the interoperability requirements of WiMAX standards. It is a goal to provide a migration path to add unlicensed WiMAX capabilities to a sector without stranding Canopy CPE equipment.

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



	Typical LoS Range*	Signaling Rate	Upgradable to Add New Advantage Features	Latency	Aggregate Throughput
Canopy 5.2 and 5.7 GHz AP	2 Miles	10 Mbps	No	20 ms	6.2 Mbps
5.2 and 5.7 GHz Canopy Advantage AP	2 Miles	10 Mbps	Yes	5-7 ms	~7 Mbps
5.2 and 5.7 GHz Canopy Advantage AP with Advantage SM	1 Mile	20 Mbps	Yes	5-7 ms	~14 Mbps
	2 Miles	10 Mbps	Yes	5-7 ms	~7 Mbps

	Typical LoS Range*	Signaling Rate	Upgradable to Add New Advantage Features	Latency	Aggregate Throughput
Canopy 2.4 GHz AP	5 Miles	10 Mbps	No	20 ms	6.2 Mbps
2.4 GHz Canopy Advantage AP	5 Miles	10 Mbps	Yes	5-7 ms	~7 Mbps
2.4 GHz Canopy Advantage AP with Advantage SM	2 Miles	20 Mbps	Yes	5-7 ms	~14 Mbps
	5 Miles	10 Mbps	Yes	5-7 ms	~7 Mbps

	Typical LoS Range*	Signaling Rate	Upgradable to Add New Advantage Features	Latency	Aggregate Throughput
Canopy 900 MHz AP	40 Miles	3.3 Mbps	No	40 ms	1.9 Mbps
Canopy 900MHz AP with Release 7.0 = Advantage AP	40 Miles	3.3 Mbps	Yes	15 ms	2.0 Mbps
	20 Miles	6.6 Mbps	Yes	15 ms	4.0 Mbps

\*Performance is Dependant on Specific Conditions



根网通讯设备(北京)有限公司

邮件: enquiry@rootscomm.com.cn

网址: www.rootscomm.com.cn

ROOTS Communication Equipment (Beijing) Co.,Ltd.

北京市朝阳区芳园西路5号 丽园中心508室 100015

电话: +86-10-64382686

传真: +86 10 64382703

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