



# Wireless Broadband Solutions For Communities

Motorola's wi4 Fixed Point-to-Multipoint Canopy® solutions help municipalities and government agencies of all sizes realize all the benefits of high-speed wireless connectivity. Canopy systems can be deployed faster, easier and more cost-effectively, helping communities bridge the digital divide while empowering public works and public safety departments to be more effective.

## **MOTOROLA'S MOTOWi4™ WIRELESS BROADBAND PORTFOLIO**

Wi4 Fixed Point-to-Multipoint Canopy solutions are part of the MOTOWi4 portfolio—a comprehensive portfolio of wireless broadband solutions and services that provides high-speed connectivity, enabling a broad range of applications in a host of environments. The MOTOWi4 portfolio also includes wi4 WiMAX, wi4 Mesh and wi4 Indoor solutions for public and private networks.

Municipal governments of all sizes—from large cities to sparsely populated rural counties and communities—are facing enormous challenges. They need to spur economic development, bridge the digital divide between the affluent and the economically disadvantaged, enhance public safety and make public services less costly and more efficient. Worldwide, Canopy wireless broadband solutions are helping to solve each of these challenges with high-speed wireless connectivity and communications systems.

In cities and communities in more than 120 countries, IP-based Canopy solutions are demonstrating the power of wireless high-speed connectivity. The fact is, no system can match Canopy networks' combination of advanced technology, simplified configuration, rapid deployment and remarkable cost-effectiveness. Canopy systems are helping create new economic opportunity for families and individuals,

regardless of their economic status, by proving high-speed Internet access at low cost, or no cost. They are helping attract new business by offering state-of-the-art broadband service. They are enhancing the productivity of public works departments with ubiquitous high-speed communications, and they are helping first responders such as police, firefighters and EMTs arrive armed with the most powerful of weapons: accurate, real-time information.

Canopy wireless networks are also fast and simple to install, enabling governments and their service provider partners to deploy their high-speed networks at high speed. Deployment times are measured in days, not weeks or months as with fiber or cable networks. All around the world, Canopy solutions are helping governments and government agencies better serve the people who depend on them for safety, efficiency and opportunity.

## DATA SHEET

wi4 Fixed  
Point-to-Multipoint Canopy Solutions

# Enhancing Lives Faster with Simplified Installation, Deployment and Integration



The Canopy system's intelligent protocols streamline deployment and operation, allowing governments to begin improving their constituents' lives and livelihoods in a matter of days. In addition, a simple network design allows the system to easily integrate with and complement existing networks.

Canopy wireless broadband equipment is available in a wide range of spectrum choices, including 900 MHz, 2.4, 5.1, 5.2, 5.4, 5.7 and 5.9 GHz. Start-up costs are more affordable than virtually any other connectivity option, with no need to run overhead or in-ground wire or install microwave. Network components are streamlined, with built-in installation and deployment assistance. The system is interference-tolerant and offers exceptional performance in line of sight (LOS) situations, and, with Canopy OFDM-based equipment, in near-line of sight (nLOS) and non-line of sight (NLOS) environments. In addition, Canopy solutions provide multiple layers of security and easily integrate with standard network management tools and systems.



The Canopy platform's upload and download speeds are as fast—or faster—than virtually every other service available today. The point-to-multipoint Canopy system offers up to 21 Mbps (aggregate data rates). 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.

When capacity needs increase, the Canopy solution is scalable to accommodate changing requirements, wider geographic areas, larger user populations and higher traffic volumes.

For more information, please contact your Motorola representative.



### Real-World Applications

The Canopy platform is enabling governments and municipalities all around the globe to help their citizens and businesses thrive in the new world of high-speed connectivity.

#### Mutzig, France

Mutzig, a village of 6,500, is located in France's "white zone," where broadband communications are not available from incumbent service providers. To deliver high-speed connectivity, Mutzig was forced to support a costly private network. Drained by the high costs and wanting to add new capabilities, the village deployed Motorola's 5.4 GHz Canopy solution, which now delivers powerful yet more cost-efficient broadband service to all municipal buildings.

#### The Republic of Macedonia

One of the first developing countries to build a nationwide wireless broadband communications infrastructure is Macedonia. In 2005, the Macedonian government chose the reliability and affordability of a Motorola Canopy solution. In less than a year, the Canopy network was already covering 95 percent of the country's population and Internet penetration jumped from less than four percent to 27 percent.

#### Los Angeles, California, USA

Faced with escalating public safety issues in the Jordan Downs housing complex, the Los Angeles Police Department decided to address the situation in part with technology. They chose a wi4 Mesh high-speed wireless broadband network combined with Canopy technology. The network provides police officers' in-car computers and hand-held devices with real-time visuals of the area from multiple wireless video cameras located throughout the complex.

The world over, Canopy solutions are fast becoming the platform of choice for connecting multiple facilities or locations powerfully, seamlessly and affordably.



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