



MOTO*WI*4™

DELIVERING WIRELESS BROADBAND — VIRTUALLY ANYWHERE



MOTOWI⁴TM

DELIVERING WIRELESS BROADBAND — VIRTUALLY ANYWHERE



Broadband is productivity. Broadband is entertainment. Broadband is utility.

Businesses, workers and consumers all over the world demand broadband access—wherever they are and whenever they need it. It is the lifeblood of today's global workforce, crucial to the health of vibrant, growing economies and ever-expanding communications networks. It is, in fact, becoming a utility—as fundamental as electricity, as expected as running water. That's why delivering and maintaining the broadband connection is so important for today's leading service providers, governments and businesses.





MOTOwi⁴
DELIVERING WIRELESS BROADBAND — VIRTUALLY ANYWHERE



MOTOwi4 is a comprehensive portfolio of wireless broadband solutions that deliver and extend coverage.

Home, office, car — and all the spaces in-between: MOTOwi4 is a broad portfolio of complementary solutions that allows you to deliver and maintain wireless broadband connectivity virtually everywhere and all the time... and across all of the necessary Internet Protocol (IP) access technologies.

WiMAX, point-to-point, point-to-multipoint, Broadband over Powerlines, mesh — they all deliver wireless broadband... and MOTOwi4 brings them all together seamlessly. As a result, you can connect to more places and more people than ever before. It gets you into all the niches: residential access at home; enterprise access at work; first responder access in the field; access when you are out in rural areas. It even means access in a town park or city street.

Understanding that one size does not fit all when it comes to broadband access needs, the portfolio of MOTOwi4 solutions provides a choice. The solutions each offer exciting possibilities and a strong business case, with an opportunity to combine solutions to further extend and maximize coverage.





COST EFFECTIVE CONNECTIVITY ACROSS CUSTOMER SEGMENTS

The breadth and depth of the MOTOwi4™ portfolio provides dynamic solutions and opportunities **across customer segments**—it is truly horizontal. Service providers, governments and municipalities, large and small businesses—each segment needs new technology and solutions that will help them to provide coverage and connectivity.

MOTOwi4 delivers wireless broadband coverage to fit every segment's needs.



MOTOwi4™ FOR SERVICE PROVIDERS

Creating markets, growing coverage, and reaching virtually any customer in virtually any environment.

Whether it's a wireline company in need of bigger broadband pipes, a cellular provider in need of flexible backhaul solutions, a cable company that needs to reach a new customer segment, or an Internet Service Provider (ISP) that wants the security of owning its own connection—the MOTOwi4 portfolio has a flexible solution that helps meet the need. Even more importantly, MOTOwi4 helps prevent an operator from ever having to tell a customer "I'm sorry, we don't cover your area." It extends the service provider's relationship with the end-user, reinforces brand loyalty and builds new revenue opportunities by supporting enhanced services and applications.

MOTOwi4 solutions complement and complete operator networks.

While MOTOwi4 is often deployed as a primary access technology, MOTOwi4 solutions are also designed to be deployed as complements and enhancements to existing networks. Extend an existing broadband network, expand coverage efficiently, fill gaps seamlessly. MOTOwi4 is designed to be an effective business solution for service providers with diverse needs and diverse network architectures.



MOTOwi4™ FOR GOVERNMENTS

MOTOwi4 serves three key areas within government:

✦ POLICE, FIRE, AND EMS — FIRST RESPONDERS

Real-time access to mission critical information

For Public Safety, wireless broadband throughout the city enhances operations. By deploying [wi4 Mesh](#) access points and routers on light poles, an agency or municipality can blanket a city with broadband in areas where high speed data is required. The MOTOwi4 portfolio can, for example, provide a police officer with a way to fill out an accident report at the scene or feed video to a precinct from the field, even at highway speeds — increasing accuracy and detail and keeping the first responders where they are needed most.

✦ PUBLIC WORKS — CITY OPERATIONS

Improve productivity, extending the desktop into the field

For Public Works, MOTOwi4 can provide a citywide data network. It's about workforce efficiency – being able to get information from the field and being able to push data out to the field in a timely manner with fewer trips back and forth to headquarters, thereby helping to reduce costs. MOTOwi4 solutions can benefit Public Works in many ways, including water management, streets and sanitation, parking meter enforcement, the delivery of work orders and information to a field crew or data enhanced two-way communications with a repair team.

✦ PUBLIC ACCESS

Providing the opportunity for your community to be internet connected

Cities need to attract and retain new businesses. Cities need to attract and retain world-class knowledge workers. Cities need to eliminate the digital divide to educate and help elevate their citizens and workforce. They need to make the benefits of connectivity accessible to all...and they need broadband to do it. The MOTOwi4 portfolio can “light up” an entire city with wireless broadband and turn high-speed Internet access into a publicly available utility.

MOTOwi4™ FOR BUSINESSES

MOTOwi4 solutions provide connectivity opportunities to increase efficiency and reduce costs

So much of what is done today can be digitized and sent over IP or broadband pipes. This creates significant efficiencies and enhanced productivity all around the world. The MOTOwi4 portfolio responds to the business demands of globalization in unique and powerful ways. MOTOwi4 solutions can help businesses securely extend their networks — both their voice and data networks — to reduce connectivity costs and increase flexibility. Workers can have access where they are, where they need to be, and when they need it.

Extend services and tighten security

Enterprises also need disaster recovery, redundant paths, and tools that will help them to provide more reliability in their networks. Additionally, new applications such as video surveillance and voice over IP require more broadband connections in new places: parking lots, campuses and storage facilities in remote areas. The MOTOwi4 portfolio provides wireless solutions addressing all of these needs. Business focused solutions that uniquely respond to the evolving landscape and dynamics of globalization, multi-faceted supply and distribution chains, and the mobile workforce.





MOTOwi4™ IS ABOUT WIRELESS IP ACCESS

A comprehensive portfolio of wireless broadband solutions that deliver and extend coverage:



wi4 Fixed

Canopy® Point-to-Multipoint

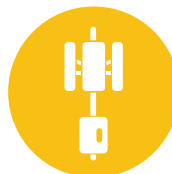
A Cost-effective, proven solution to build and enhance high performing wireless broadband networks and services utilizing unlicensed or managed frequencies (900 MHz, 2.4 GHz, 5 GHz).

- ⊕ Deployed in more than 120 countries by more than 3000 service providers since 2002
- ⊕ Strong ROI with demonstrated payback periods of less than one year for commercial deployments
- ⊕ Superior performance with best in industry latency and interference mitigation
- ⊕ Enhanced flexibility and scalability; No-touch upgrades
- ⊕ Provides broadband feed to BPL and Mesh solutions
- ⊕ Easy to deploy and manage

Point-to-Point

Secure, reliable, point-to-point IP connectivity helps reach new and challenging spaces by bridging and extending voice and data networks, and enabling new applications and services (2.4 GHz, 5 GHz).

- ⊕ High speed connectivity to challenging spaces — including non-line-of-site, near-line-of-site, and line-of-site solutions
- ⊕ Spanning distances up to 124 miles (200 kilometers)
- ⊕ Backhauling cellular sites and Wi-Fi hotspots
- ⊕ Bridging enterprise voice and data
- ⊕ Temporary and disaster recovery
- ⊕ Unlicensed backhaul for WiMAX networks



wi4 WiMAX

Broadband Wireless Access in Licensed Spectrum

High-performing, standards based solutions supporting fixed, nomadic, portable, and mobile applications (2.5 GHz, 3.5 GHz), WiMAX is about getting broadband to the person whenever they want or need it, and wherever they are. Personal devices like PDAs, cell phones and computers will soon all come WiMAX enabled.

- ⊕ Standards-based, last-mile connections as well as mobile networks
- ⊕ Wireless alternative to wired access, greater range and bandwidth than Wi-Fi
- ⊕ IEEE 802.16 specification first introduced in 2001; backed by 200+ companies
- ⊕ Promises to standardize equipment, making it interoperable and cost effective
- ⊕ Complementary to wireline, 2G and 3G networks



wi4 Mesh

Solutions for Public Access, Public Safety, and Public Works

Providing fixed and mobile IP-based wireless networks for area-wide coverage using Wi-Fi and Public Safety frequency bands (2.4 GHz, 4.9 GHz). wi4 Mesh blankets an entire city with wireless broadband coverage through its 802.11 radios and its private mobile broadband MEA® radios — whether it's in parks, on the streets, in businesses or in residences.

- ⊕ Truly mobile or fixed broadband connectivity options
- ⊕ Innovative, high performing networks
- ⊕ Proven Motorola technology, highly resilient to interference
- ⊕ Highly scalable solutions enable easy, cost-effective deployment
- ⊕ Dedicated, Secure Connections Over Public Networks
- ⊕ Easily installable on existing infrastructure such as light poles



wi4 BPL

Broadband over Powerline

“Plug In” Connectivity—Reaching New Spaces

wi4 BPL solutions deliver broadband connectivity by combining innovative wireless technology with widespread access through the electric grid.

- ⊕ Solutions light up “3rd wire” possibilities—delivering IP through powerlines
- ⊕ Simple, cost-effective extension to existing networks
- ⊕ Scalable and easy to deploy, with self-install Customer Premise Equipment (CPE)
- ⊕ Enable smart electric grid and new access for the community
- ⊕ Leverages proven technologies

MOTOWI⁴

For more information, visit www.motorola.com/motowi4



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