



# Motorola USBw 100 USB Adaptor For Mobile WiMAX

High Performance, Wave 2 Ready Solution for Wireless Broadband Access in the 2.3, 2.5 and 3.5 GHz Bands.

## KEY BENEFITS:

- Best-in-class radio performance
- Reliable indoor coverage
- Best-in-class throughput

## MOBILE OR NOMADIC SOLUTION

- Indoor and outdoor coverage
- Exceptional RF performance
- Fully Compatible with Windows PC
- Driver for Windows XP/Vista included

## HIGH THROUGHPUT

- 14 Mbps down-link (max usable physical layer throughput), 10 MHz channel
- 4 Mbps up-link (max usable physical layer throughput), 10 MHz channel

## Motorola's USBw 100 delivers flexible, high-speed connectivity for mobile or nomadic wireless broadband access using the convenient USB format.

### Deliver Instant, Reliable Access on the Move

With Motorola's USBw 100 WiMAX adaptor, you are no longer limited to cable or DSL for high speed broadband connectivity. You can experience the same easy, reliable access to broadband speeds on the go – indoors and outdoors, at home or in the office.

Now you can experience mobile WiMAX through the common USB interface available on your laptop. Motorola's USBw 100 adaptor provides end users with a compact device that can easily plug into any USB port. This cost effective device complements Motorola's growing portfolio of Wave 2 Ready WiMAX devices that includes Customer Premises Equipment (CPE) and PC Cards.

Indoor wireless propagation can be particularly challenging, but Motorola's wi4 WiMAX USB adaptor has been designed to perform, offering reliable, high-speed data services to your subscribers. Decades of Motorola experience in radio environments have gone into our wi4 WiMAX device portfolio, all with the aim of delivering best-in-class performance, enabling our customers lower

costs and higher returns while providing consumers the ease and freedom of use that they demand.

### Motorola USB Adaptor for WiMAX

The Motorola USBw 100 adaptor offers best-in-class radio performance in a convenient form factor. Compatible with Windows XP (SP2/ SP3) and Vista, the Motorola USBw 100 adaptor provides notebook computer users with the low power consumption and high sensitivity they demand.

The USBw 100 adaptor employs multiple antenna technology, which delivers increased range and higher throughput when compared to products with single antenna solutions. When used with Motorola's dual-antenna, Diversity Access Point (DAP) /WAP 400 Series, both uplink and downlink performance are significantly enhanced by advanced signal processing techniques, including: Maximal Ratio Combining (MRC), and Cyclic Shift Transmit Diversity (CSTD). Select combinations of these algorithms are combined in Motorola CPE products in order to deliver high performance in the smallest physical footprint.

**ROBUST SECURITY**

- Device authentication based on X.509 digital certification
- AES (128-bit CCM) data encryption and authentication
- Support of TLS and TTLS authentication protocol

**EASY INSTALLATION**

- Simple, intuitive software installation

**Why Motorola**

Motorola has aligned its business units and roadmaps to provide a comprehensive, end-to-end solution covering all aspects of the broadband wireless access deployment. With our deep and extensive patent portfolio, over a decade of R&D investment, and our experience as a global supplier of broadband wireless access solutions, Motorola is primed to deliver its best-in-class devices. Motorola is committed to leading the industry with end-to-end wi4 WiMAX solutions addressing the full scope of the operator's deployment needs including access, core, devices, network management and services.

The WiMAX USB<sub>w</sub> 100 is part of Motorola's portfolio of broadband wireless access technologies, a comprehensive platform of wireless broadband solutions and services. Designed to complement and complete operator networks, our solutions address a broad range of applications across operator segments from basic connections in unserved regions to high-speed, mobile access in dense metro markets. Motorola's solutions help people access information and share content wherever they might be.

**MOTOROLA USB<sub>w</sub> 100 WiMAX USB ADAPTOR**

<b>Radio Performance</b>	Transmit: 200 mW maximum; highly sensitive receiver (>5dB better than WiMAX forum specifications), RX diversity, convolution turbo coding (CTC), omni-directional antennas, hybrid automatic repeat request (HARQ)
<b>Frequency Band</b>	USB <sub>w</sub> 23100 (2300 - 2400 MHz) USB <sub>w</sub> 25100 (2496 - 2690 MHz) USB <sub>w</sub> 35100 (3400 - 3600 MHz)
<b>Connectivity</b>	Universal serial bus V1.1 and 2.0 compatibility
<b>Certification</b>	WiMAX Forum Wave 2 compliant, 5 MHz and 10 MHz channels for 2.3 GHz, 5 MHz and 10 MHz channels for 2.5 GHz 5 MHz, 7 MHz and 10MHz channels for 3.5 GHz
<b>Quality of Service Classes</b>	BE (Best Effort), UGS (Unsolicited Grant Service), RTPS (Real Time Polling Service), NRTPS (Non Real Time Polling Service), ERTPS (Extended Real Time Polling Service)
<b>Security</b>	Device authentication based on X.509 digital certification, authentication methods according to IEEE 802.16e, EAP-TLS and EAP-TTLS AES (128-bit CCM) data encryption and authentication
<b>Remote Configuration and Software Upgrade</b>	Downloadable, self-extracting software bundle
<b>OS Compatibility</b>	Windows XP (SP2/ SP3) and Vista
<b>Environmental</b>	Operating temp: 0°C to 60°C, operating humidity: 20% to 85%, non-condensing
<b>Regulatory</b>	North America and Latin America, Europe, Asia pending

**MOTOROLA**
[motorola.com/wimax](http://motorola.com/wimax)