



# Motorola wi4 WiMAX CPEi 100

## Design and performance for last mile wireless access

High performance and streamlined design – Motorola’s wi4 WiMAX CPEi 100 bundles what you need and what customers demand all into one trim package.

From its exceptional ease of use to its sleek styling, the Motorola wi4 WiMAX CPEi 100 Desktop CPE offers a 2.5 GHz band WiMAX solution tailored to appeal to your subscribers. It delivers fast, reliable, high-speed wireless Internet connectivity with no waiting for installation, no complex configuration and no operator intervention.

### CONVENIENCE

Motorola’s wi4 WiMAX CPEi 100 Desktop CPE is easy to install with “plug-and-play” functionality. The network will automatically detect the device and perform the necessary authentication processes. An easy-to-read signal strength indicator allows the user to orient the unit for optimum service.

### PERFORMANCE

CPE device performance is a factor of antenna gain, directivity and orientation, as well as transmitter power and receiver sensitivity. Radiated performance of WiMAX CPE devices can differ dramatically; in a typical environment, low-end performance by your CPEs can translate to the need for over ten times as many access points in order to provide the same level of service. Motorola’s wi4 WiMAX CPEi 100 Desktop CPEs feature a high-gain directional antenna for optimum coverage and throughput. Combined with multi-antenna operations at the access points, the CPEi 100 provides best-in-class range and indoor penetration.

### CONTROL

Motorola’s wi4 WiMAX CPEi 100 Desktop CPE supports remote management capability allowing management and health monitoring of the devices from a centralized network or element management system. Advanced security and authentication protocols protect the end-user and the operator from external threats.

### COMPACT STYLE

The thin, lightweight design of the Motorola wi4 WiMAX CPEi 100 Desktop CPE complements any décor or work environment and is easily transportable in a briefcase or computer bag. The antenna is fully internal, for easier set-up.

### BENEFITS

- Best-in-class radio performance
- Reliable indoor coverage
- Best-in-class throughput
- Five Quality of Services classes
- Robust security

**MOTOROLA and MOTOwi<sup>4</sup>™**

The Motorola wi4 CPEi 100 Desktop CPE is part of the MOTOwi4 family of broadband wireless access technologies, a comprehensive platform of wireless broadband solutions and services. Designed to complement and complete operator networks. Motorola is uniquely positioned to address the wireless broadband market through the MOTOwi4 vision. 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.

Motorola is committed to leading the industry with end-to-end WiMAX solutions addressing the full scope of the operator's deployment needs including access, core, devices, network management and services.

MOTOROLA CPEi 25100 SPECIFICATIONS	
Frequency Band (MHz)	2496 - 2690
Radio Performance	500 mW output power Highly sensitive receiver Integral directional antenna Convolution Turbo Coding (CTC) Hybrid Automatic Repeat request (HARQ)
Connectivity	1 Port Ethernet
Certification	WiMAX Forum Certification Wave 1 5 MHz and 10 MHz Channel for 2.5 GHz
Quality of Service Classes	BE (Best Effort) UGS (Unsolicited Grant Service) RTPS (Real Time Polling Service) NRTPS (Non Real Time Polling Service) ERTPS (Extended Real Time Polling Service)
Security	Device authentication based on X.509 digital certification Authentication methods according to IEEE 802.16e, EAP-TLS and also EAP-TTLS AES (128-bit CCM) Data Encryption and Authentication
Remote Configuration and Software Upgrade	OTA (Over The Air) field upgradeable SNMP v3 Agent
OS Compatibility	Windows / Mac
RF Performance	Sensitivity: >5dB better than WiMAX Forum Specifications Antenna Gain: >13dBi TX power out: +27dBm (0.5 Watts) Noise Figure: 5 dB
Mechanical and Electrical	External Power: 100-250 Volts AC input Operating Temp: 0°C to 40°C Operating Humidity: 5% to 95%, non-condensing US and International plug support
Environmental and Regulatory	North America, Asia, Latin America, EMEA



**MOTOROLA**

Motorola, Inc. [motorola.com/wimax](http://motorola.com/wimax)