Motorola WiMAX CPE*i* 150

A WiMAX Certified Wireless Broadband CPE

Motorola's WiMAX CPE*i* 150 delivers high speed Internet connectivity to accelerate the delivery of personal media experiences.

This cost effective, WiMAX Certified CPE is stylish, compact and easy to use. It features superior RF performance for fast, reliable, high-speed wireless connection that enables new multi-media experiences.

CONVENIENCE

Motorola's WiMAX CPE*i* 150 Desktop CPE is easy to install with "plug-and-play" functionality. The network will automatically detect the device, perform authentication processes and indicate optimal signal strength.

PERFORMANCE

CPE device performance is a factor of antenna gain, transmitter power and receiver sensitivity. Transceiver 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 WiMAX CPE*i* 150 Desktop CPEs feature a high-gain antenna for optimum coverage and throughput. Combined with multi-antenna operations at the access points, the CPE*i* 150 provides best-in-class range and indoor penetration.

CONTROL & SECURITY

Motorola's WiMAX CPE*i* 150 Desktop CPE supports Over The Air (OTA) 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.

COMPACT STYLE

The thin, lightweight design of the CPE*i* 150 Desktop CPE complements any environment and is easily transportable in a briefcase. The antenna is fully internal, for easier set-up.

EASY END-USER INSTALLATION

The CPE*i* 150's "plug-and-play" capability means you can reduce operating costs associated with service turn-up. The WiMAX network automatically detects the CPE*i* 150 upon power up and performs the necessary authentication processes. The CPE*i* 150 comes with all device drives pre-loaded. Subscribers do not need to perform any additional actions other than turning on the unit and connecting the CPE to their computer. The CPE*i* 150 has an attractive, user-friendly graphical interface that allows your end-users to personalize their service.

DATA SHEET
MOTOROLA WiMAX CPE*i* 150 SERIES

BENEFITS

1. WiMAX Certified
2. "Plug-and-Play" self installation when powered up
3. Intuitive end-user interface
4. Data centric design with 1 data port
5. Integrated high gain antennas
6. MRC, MIMO A&B and AAS beamforming
7. Over The Air (OTA) software upgrades
8. Multiple channel bandwidth: 5MHz and 10MHz support

MOTOROLA CPE*i* 150 SERIES SPECIFICATIONS

Indoor Coverage	Up to 2 kilometers range (*); Exceptional RF performance
Radio Performance	Scaleable OFDMA employing Time-Division Duplex (TDD) mechanism; Diversity Combining: Maximum-Ratio Combining (MRC); Beamforming support; MIMO Matrix A and B; Convolutional Turbo Coding (CTC); Hybrid Automatic Repeat Request (HARQ)
Connectivity	1 Ethernet port
Certification & Channel & Modulation Scheme Support	WiMAX Certified; QPSK, 16QAM, 64QAM, 2.5 GHz device supports 5 MHz & 10 MHz channel bandwidth.
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)
Throughput	>5Mbps Down- Link> 2 Mbps Up-Link (**)
Security	Device authentication based on X.509 digital certification; Authentication methods according to IEEE 802.16e, EAP-TLS, also EAP-TTLS; AES (128-bit CCM) Data Encryption and Authentication and Firewall
Remote Configuration and Software Upgrade	OTA (Over The Air) field upgradeable; SNMP v3 Agent; TR-069 Agent; OMA Agent
OS Compatibility	Windows; Mac
RF Performance	Sensitivity: > 5dB better than WiMAX Forum® Specifications across all modulation schemes; Antenna Gain: 2 x 7dBi antennas; TX power out: 26dBm; EIRP: 33dBm; Noise Figure: 5 dB
Mechanical and Electrical	External Power: 100-250 volts, 1A AC input; Operating temp: 0°C to 40°C; Operating humidity: 5% to 95%, non-condensing
Environmental and Regulatory	North America; Europe; Asia; Latin America

(*): Operational range is dependent on network planning and RF conditions
(**): Throughput is dependent on network's service level area plans and software feature support.

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