



Motorola CPEi 600 Series

Bundle Broadband Data with an easy voice option

Add plug-and-play, high performance VoIP to your wireless broadband access solution with Motorola's CPEi 600 Series.

Motorola's CPEi 600 Series Customer Premises Equipment for WiMAX makes VoIP even more attractive, with integrated ATA for plug-and-play access. There's no need for a special handset, complex configuration or time-consuming operator intervention – just an optional cable to connect their existing handset to the CPE and your subscribers are ready to take advantage of your quality, reliable wireless for voice as well as data access.

CONVENIENCE

Motorola's CPEi 600 Series with easy self-install design, eliminates the need for costly truck rolls or operator intervention. The network will automatically detect the device and perform the necessary authentication processes. An easy-to-read signal strength indicator shows to swivel the antennas to increase the device's reception.

PERFORMANCE

CPE device performance is a factor of antenna gain, directivity, orientation and diversity, as well as transmitter power and receiver sensitivity. The 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. You can't afford to make the wrong choice.

The Motorola CPEi 600 Series features dual antennas to support diversity techniques. Combined with multi-antenna operations at the access points and open and closed-loop adaptive antenna techniques, the CPE solution provides best-in-class range and indoor penetration.

CONTROL

The Motorola CPEi 600 Series 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.

MIMO

All Motorola CPE products employ 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), Cyclic Shift Transmit Diversity (CSTD), MIMO Matrix A, and MIMO Matrix B. Select combinations of these algorithms are combined in each Motorola CPE product in order to deliver a high performance in the smallest physical footprint.

BENEFITS

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

DATA SHEET

Motorola CPE / 600 Series

WHY MOTOROLA & MOTOwi4™

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.

The MOTOwi4™ family of broadband wireless access technologies is a competitive platform of wireless broadband solutions and services designed to complement our complete operators networks.

MOTOROLA CPE / 600 SERIES SPECIFICATIONS

Radio Performance	500 mW output power Highly sensitive receiver Retractable, high gain, omni-directional antennas Orientation independent desktop unit Two branch Maximum Ratio Combining Diversity Convolution Turbo Coding (CTC) Hybrid Automatic Repeat request (HARQ)
Connectivity	4 Ethernet Ports 2 Integrated ATA Ports (VoIP)
Frequency	7 MHz Channel for 3.5 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 Firewall
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: 7dBi 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, Europe, Asia, Latin America

**MOTOROLA**Motorola, Inc. www.motorola.com/wimax

The information presented herein is to the best of our knowledge true and accurate. No warranty or guarantee expressed or implied is made regarding the capacity, performance or suitability of any product. MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their respective owners. © Motorola, Inc. 2007 1206networksgms