



Motorola CPEi 300 Series

Superior Design and Performance for Data and Voice

Building on the stylish CPEi 200, Motorola's CPEi 300 Series bundles high-speed data connectivity with Voice over IP (VoIP) for global users.

The Motorola CPEi 300 Series Desktop CPE offers a WiMAX solution that delivers fast, reliable, high-speed wireless Internet connectivity with no waiting for installation, no complex configuration and no operator intervention. In addition, it offers your customers the ability to make Voice over IP (VoIP) calls by providing two RJ11 ports for connecting their existing cordless or wired phones to the unit. With the increase in uptake of VoIP calls, your customers will be able to use the CPEi 300 for both data and voice connectivity, hence providing a new revenue stream and enabling you to bundle data and voice to your customers in a single package.

CONVENIENCE

Motorola WiMAX CPEi 300 Series Desktop CPE is easy to install with "plug-and-play" functionality. The network will automatically detect the device and perform the necessary authentication processes.

PERFORMANCE

CPE device performance is a factor of antenna gain, directivity, orientation and diversity, 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 WiMAX CPEi 300 Series Desktop CPEs feature sectorized antenna array employing a switched diversity scheme to support orientation independent performance. 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

Motorola WiMAX CPEi 300 Series 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.

MIMO

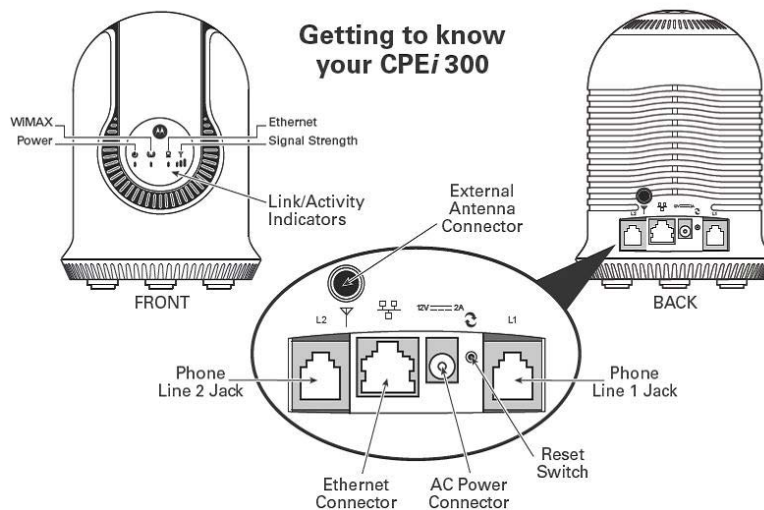
All Motorola CPE products employ Multiple Antenna Technology, which delivers increased range, and higher throughput. When used with Motorola's dual-antenna, Diversity Access Point (DAP) / WAP 400 Series, both uplink and downlink performance are significantly enhanced by advanced signal processing techniques, such as Cyclic Shift Transmit Diversity (CSTD).

BENEFITS

- Best-in-class radio performance
- Bundled Data and VoIP Capability
- Reliable indoor coverage
- Best-in-class throughput
- Five Quality of Services classes
- Robust security

MOTOROLA CPEi 300 SERIES SPECIFICATIONS

Radio Performance	500 mW output power Highly sensitive receiver Sectorized antenna array – orientation independent performance Convolution Turbo Coding (CTC) Hybrid Automatic Repeat request (HARQ)
Connectivity	1 Ethernet Port 2 Integrated ATA Ports (VoIP)
Certification	WiMAX Forum Certification Wave 1 7 MHz and 5 MHz Channel for 3.5 GHz 5 MHz and 10 MHz Channel for 2.5 GHz and 2.3 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: >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



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