



Motorola CPEi 725

Wave 2 ready, plug-and-play, high performance for wireless broadband data and Voice over IP

Motorola's wi4 WiMAX CPEi 725 offers you another Wave 2 ready device option with voice and data features. Motorola's CPEi 725 features a balanced blend of integrated design, data and voice access ports, high gain antennas with omni directional performance to offer best possible signal strength and a highly sensitive receiver that exceeds the WiMAX Forum's specified receiver sensitivity requirements across all modulation schemes.

This combination not only reduces the base station infrastructure requirements to the operators, but also offers to the subscribers better quality data and voice services (QoS), stretching the overall service level areas.

Reliability

The CPEi 725 offers the high device reliability critical to ensure an optimal experience for the end user. It also ensures lower operating costs associated with device repair or replacement. Wi4 WiMAX device quality is governed by Motorola Networks Quality Standards and an established Quality Review Board. The quality process employs a system test plan developed and executed by Motorola's SEI Level 5 Test organization.

Performance

The CPEi 725 has unique design advantages which improve network performance and end-user experience as well as reduce the total cost of operations. Leveraging MIMO, diversity techniques, and best-in-industry receiver sensitivity. Motorola's fixed devices increase throughput, optimize utilization of system resources, and reduce the number of access points required to provide service.

Control & Security

Motorola wi4 WiMAX CPEi 725 supports Over The Air (OTA) management capabilities allowing administration 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.

Plug & Play

With true Plug-and-Play capability, the CPEi 725 enables you to speed time to service and reduce operating costs associated with subscriber service turn-up. The WiMAX network automatically detects the CPEi 725 upon power up and performs the necessary authentication processes. CPEi 725 comes with all the device drivers pre-loaded. Subscribers do not need to perform any additional actions other than powering up the unit and connecting the device to their computer and voice handsets. An elegant and user-friendly graphical interface allows end-users to self-diagnose their connections and personalize their service.

Cool Designs

Following the Motorola tradition of iconic designs, the CPEi 725 was designed by the same organizations designing next generation mobile devices and accessories. Strong design principles offer you an important marketing opportunity to inspire subscriber adoption.



DATA SHEET

Motorola CPE/725

Stylish design – Superior performance

1. 802.16E WAVE 2 READY
2. STYLISH SLIM DESIGN
3. TRUE PLUG & PLAY: JUST POWER UP THE UNIT AND START YOUR MULTI-MEDIA WEB EXPERIENCE
4. ORIENTATION FREE PLUG & PLAY
5. INTUITIVE USER INTERFACE
6. 1 DATA & 1 VOIP ACCESS PORT
7. INTEGRATED HIGH GAIN ANTENNAS
8. MRC, MIMO A & B AND AAS BEAMFORMING
9. OVERTHE AIR (OTA) SW UPGRADES

BENEFITS

- Best-in-class radio performance
- Reliable: MTBF of 55 years
- Best-in-class throughput
- Five Quality of Services classes
- Robust security

MOTOROLA CPE/725 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; 1 Integrated ATA Port (VoIP)
Certification & Channel & Modulation Scheme Support	WiMAX Forum® Certification Wave 2; QPSK, 16QAM, 64QAM, supports 5MHz & 10MHz 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 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; 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 5dBi Omni directional performance; TX power out: 25.5dBm; EIRP: 30.5dBm; Noise Figure: Better than 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.

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

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