ZyXEL's MAX-206 series CPEs are the world's first WiMAX Forum certified mobile devices that provide the highest link budget while WiMAX networks are still in the early stage of deployment. The router provides users with seamless broadband wireless connectivity and the freedom to surf the Internet and access any information at home, in the office or anywhere under WiMAX coverage. The MAX-206M2 gateway comes with dual 5dBi gain antenna integrated into the device with 27dBm output power and a built-in ICSA certified firewall. Its versatile design, including two VoIP ATA ports, ensures carriers that their investments in mobile WiMAX devices will provide the maximum added-on values for even more applications. "AVAILABLE EXCLUSIVELY THROUGH SPRINT NEXTEL'S XOHM NETWORK"

Features:

- IEEE802.16e-2005 Standard-based (TDD SOFDMA)

- WiMAX Forum Wave2

- Integrated Secure Voice Data in a Compact, Creative Stylish Design

- MIMO Matrix A and Matrix B Support

- 2.5GHz Frequency Band Support

- Up to 27dBm Transmission Power and Superior Reception Performance

- Embedded Antenna & Flexible External Antennas

- Over-the-air Software Upgrade

Speficiations:

WiMAX Air Interface

- Reference standard: IEEE 802.16e-2005

- SOFDMA

- Duplex mode: TDD

- Frequency: 2.500-2.700GHz

- Channel Bandwidth / FFT size: 5MHz/512FFT and 10MHz/1024FFT

- Modulation: QPSK, 16QAM, 64QAM

- FEC: CC (Convolutional Coding), CTC (Convolutional Turbo Code)

- Maximum ratio combining support

- Maximum output power at antenna port: 27dBm ±1dB

- Built-in antennas : 5dBi Omni x 2

- Sensitivity: -99dBm @ QPSK 1/2 Two SMA antenna connectors for external antenna

- o See http://www.rfwel.com/shop/product.php?productid=1721 for external high gain directional antennas

  - o See forums.rfwel.com for discussion on MiMO antennas for this modem.

- Aggregate throughput Up to 30 Mbps

- QoS management based on classification

- Security: EAP-TTLS/CHAP-based user authentication, CMAC message authentication, CCM mode 128-bit AES data ciphering

IP Networking

- User configurable Router (RIPv1, RIPv2) and NAT (one-to-one, many-to-one)

- Embedded security: Firewall with SPI, content filtering, Java/Active X/ Cookie/ Keyword blocking

- Major ALG (SIP/FTP/H.323)

- DHCP client/server/relay

Voice over IP

- SIP V2 (RFC 3261) and SDP (RFC 2327)

- G.711 a/μ G.723 and G.729 codec

- Echo cancellation G.168

- VAD (Voice Activity Detection), Silence suppression and CNG (Comfort Noise Generation)

- DTMF Detection and Generation

- Fax, Modem Detection and Passthrough (T.38)

Phone Features

- Caller ID and Message Waiting Indicator (RFC 3842)

- Call Waiting, Call Hold, Call Forward (Unconditional/Busy/No Answer) and Call transfer (Blind and Attended Transfer)

- Early Media, Music on Hold

- MWI (Message Waiting Indicator (RFC 3842)

NAT Traversal

- STUN (RFC 3489)

- Outbound Proxy

- Manual configuration SIP and RTP

Management

- Remote TFTP/HTTP Firmware Upgrade

- Web-based/SNMP/Telnet Management Over-the-air firmware upgrade: OMADM or TR-069, Auto Provision Hardware Specifications

- 2 Ethernet connector: 10/100 BaseT Auto MDI/MDIX (RJ-45 plug)

- 2 FXS POTS phone port for conventional phone (RJ-11plug)

- LEDs : Power indication, WiMAX connection, status, LAN status, VoIP status LED

- Reset to Factory Defaults/Reboot button

Power Specification

- External power supply: 12V DC

- Average power consumption peak: 24W

Physical Specifications

- Dimension: 160(W) x118(D) x167(H) mm

- Weight: 480 g

Environmental Specifications

- Operation Temperature: 0°C ~ 45°C

- Operation Humidity : 10% ~ 90% (non-condensing)

- Storage Temperature: -25°C ~ 55°C

- Storage Humidity: 10% ~ 95% (non-condensing)

Certification

- WiMAX Forum Wave2 certification FCC certification marked for EMC and Safety