

# ZyXEL



## Nomadic and Mobile WiMAX Modem for PC



- IEEE 802.16e-2005 WiMAX Air Interface (TDD SOFDMA)
- 2.5GHz (MAX-100), 3.5GHz (MAX-110) and 2.3GHz (MAX-130)
- High Transmit Power (23dBm) and 2dBi Gain Rotating Antenna
- AAS Beamforming Smart Antenna
- 802.16e Security for Authentication and Ciphering
- QoS Management
- Low Power Consumption
- SW Upgrade

### Benefits

#### The Ultimate Broadband Wireless Technology

The MAX-100 series supports the IEEE 802.16e-2005, state of the art SOFDMA based, radio interface, also known as WiMAX.

#### Maximum Freedom of Mobility

MAX-100 series PCMCIA provides users a seamless broadband wireless access, giving the freedom to surf the internet and access any data while under WiMAX 802.16e coverage, at home, in the office, or on the move.

#### Easy Installation and Intuitive User Interface

The auto setup wizard makes installation quick and simple. Moreover, an intuitive user interface easily guides users through the configuration procedure.

#### Compact, Stylish Designed

Small is beautiful. The MAX-100 series is yet small enough to fit in your pocket, especially it could provide you higher performance via rotating antenna.



# WIRELESS

IEEE802.16e PCMCIA

MAX-100  
MAX-110  
MAX-130



## Specifications

### Air Interface

- Reference standard: IEEE 802.16e-2005 SOFDMA
- Radio Access Method: TDD
- Frequency: 2.500-2.700GHz (MAX-100), 3.400-3.600GHz (MAX-110) and 2.300-2.400GHz (MAX-130)
- Channel Bandwidth / FFT size: 3.5MHz / 512FFT, 5MHz / 512FFT, 7MHz / 1024FFT, 8.75MHz/1024 FFT and 10MHz/1024FFT (software selectable)
- Central frequency resolution: 125kHz
- Modulation: QPSK, 16QAM, 64QAM (DL only)
- FEC: CC (Convolutional Coding), CTC (Convolutional Turbo Code)
- Smart antenna: AAS beamforming according to WiMAX Forum Profile
- Maximum output power at antenna port: 23dBm  $\pm 1$ dB
- Antenna: 2dBi omni, 65° beam width
- Up to 5 Mbps downlink, 2 Mbps uplink user data
- QoS management, relying on classification
- Security: EAP-TTLS/CHAP based user authentication, CMAC message authentication, CCM mode 128-bits AES data ciphering

### System Requirements

- PC with PCMCIA slot
- Windows 2000 or Windows XP OS

### Configuration / Upgrade

- PC application for configuration, diagnostic and software upgrade (from local PC)

## Mechanical

- PCMCIA type II form factor, 58 x 125 mm
- 2 LEDs : Power indication, WiMAX connection status
- Rotating antenna

## Power

- Max power consumption : 2W

## Environmental – Regulatory – Certification

- WEEE Eco directive 2002/95/EC
- WiMAX certification (as soon as applicable)
- Storage conditions : -25°C to 55°C, 10% to 95% humidity
- Operation conditions : 0°C to 45°C, 10% to 90% humidity (non condensing)
- EMC and Safety : ETSI EN 301 489, EN 60950, CE marked for EMC and Safety

For more product information, visit us on the web [www.ZyXEL.com](http://www.ZyXEL.com)

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