

# WiMAX 802.16e USB Adapter

*Your Fast Way to Deploy WiMAX Service*

- IEEE 802.16e-2005 Mobile WiMAX
- Easy Installation
- MIMO Supported
- MRC Support for Receiving Sensitivity
- Full Non-Line of Sight (NLOS) Deployment
- 2.3/2.5/3.5GHz Frequency Band Support
- Windows XP/Vista Support

## US210

The AWB US210 is a WiMAX USB adapter for laptop users to connect to WiMAX broadband wireless access (BWA) services. It supports Windows XP and Vista system. Compliant with IEEE 802.16e WiMAX standard, the AWB US210 supports mobile wireless connectivity up to 30KM speed.

## Key Features

- IEEE 802.16e-2005 Wave 2 compliant
- Direct access internet at any time, anywhere
- Self installable & self configurable
- Peak Throughput: Up to 33Mbps
- Full Non-Line of Sight (NLOS) deployment
- MIMO (Multiple input, Multiple output) technology improves transmission speed and coverage
- MRC (Maximum Ratio Combining) technology utilizes dual receive antennas to enhance receiving signal quality
- 2.3/2.5/3.5GHz frequency band support

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Physical Interface	
<b>Host Interface</b>	USB 2.0
WiMAX Specification	
<b>Standard Compliant</b>	IEEE 802.16e-2005
<b>Air Interface</b>	Scalable OFDMA
<b>Duplex Mode</b>	TDD/5ms frame
<b>Frequency Band</b>	2.3-2.4 GHz (US210-2.3) 2.496-2.696GHz (US210-2.5) 3.3-3.6GHz (US210-3.5)
<b>Channel Bandwidth</b>	5, 7, 8.75, 10 MHz (configurable)
<b>Modulation</b>	DL Modulation: QPSK, 16QAM, 64QAM UL Modulation: QPSK, 16QAM, 64QAM
<b>MIMO</b>	Matrix A (STC) & Matrix B
<b>Transmit Power</b>	23dBm @ QAM 16, ¼ CTC
<b>Receiving Sensitivity</b>	-94dBm @ QPSK, ½ CTC
<b>Antenna</b>	1 Tx, 2 Rx with MRC (Maximum Ratio Combining)
<b>Antenna Gain</b>	2 dBi typical, External Omni Antenna
<b>Max. Throughput</b>	Downlink Peak Rate: > 33 Mbps Uplink Peak Rate: > 7 Mbps
<b>Security/Encryption</b>	PKMv2 with 128bit AES/CCM
<b>QoS Mechanism</b>	Dynamic Service Flow Creation, Change, Deletion Scheduling: UGS, RT-VR, NRT-VR, ERT-VR and BE
<b>HO (Hand-off)</b>	Hard HO / Optimized Hard HO
<b>Power Management</b>	Idle and Active mode
<b>OS Support</b>	Windows XP / Vista
Mechanical	
<b>Dimensions (H x W x D)</b>	TBD mm
<b>Power Consumption</b>	2.4W @ 23dBm
<b>Operating Temperature</b>	0° – 45°C
Standards and Regulations	
<b>Radio</b>	FCC Part 27
<b>EMC</b>	FCC Part15B Class B, CE EN55022 Class B
<b>Safety</b>	CB60950-1
<b>Environmental</b>	ETS 300 019

• AWB reserves the right to make changes to product specifications without notices.



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