

WiMAX 802.16e PCMCIA Card

Your Fast Way to Deploy WiMAX Service

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



PC100

The AWB PC100 is a WiMAX PCMCIA Card 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 PC100 supports mobility wireless connectivity up to 30km speed.

Key Features

- Direct access internet at any time, any where
- Self installable & self configurable
- High throughput over WiMAX
- Full Non-Line of Sight (NLOS) deployment
- MRC (Maximum Ratio Combining) technology utilizes dual receiver antennas to enhance receiving signal quality
- QoS management

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Physical Interface	
Host Interface	PCMCIA Type II Version 2.1
WiMAX Specification	
Standard Compliant	IEEE 802.16e-2005
Air Interface	Scalable OFDMA
Duplex Mode	TDD/5ms frame
Frequency Band	2.3-2.4 GHz (PC100-2.3) 2.496-2.696GHz (PC100-2.5) 3.3-3.6GHz (PC100-3.5)
Channel Bandwidth	7MHz(PC100-3.5), 8.75MHz(PC100-2.3), 10MHz (PC100-2.5)
Modulation	DL Modulation: QPSK, 16QAM, 64QAM UL Modulation: QPSK, 16QAM
Transmit Power	23dBm @ QAM 16, ¼ CTC
Receiving Sensitivity	-82dBm @ QPSK, ½ CTC -72dBm @ QAM16, ¼ CTC -71dBm @ QAM64, ½ CTC
Antenna	1 Tx, 2 Rx with MRC (Maximum Ratio Combining)
Antenna Gain	2 dBi typical for External Omni Antenna
Max. Throughput	Downlink Peak Rate: > 7Mbps Uplink Peak Rate: > 2Mbps
Security/Encryption	PKMv2 with 128bit AES/CCM
QoS Mechanism	Dynamic Service Flow Creation, Change, Deletion Scheduling: UGS, RT-VR, NRT-VR, ERT-VR and BE
HO (Hand-off)	Hard HO / Optimized Hard HO
Power Management	Idle and Active mode
OS Support	Windows XP / Vista
Mechanical	
Dimensions (H x W x D)	134 x 59 x 12mm
Power Consumption	2.25W @ 23dBm
Operating Temperature	0° – 45°C
Standards and Regulations	
Radio	FCC Part 27
EMC	FCC Part15B Class B, CE EN55022 Class B
Safety	CB60950-1
Environmental	ETS 300 019



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