



VMW5700-2

System Overview

VWM-Max E series

Mobile WiMAX Subscriber Unit

PC Card



Features

- **Mobile WiMAX subscriber unit for wireless quadruple-play service delivery to a Personal Computer**
- **Enables personal broadband connection to any laptop computer**
- **Supporting 2.X, 3.X GHz bands**

GENERAL DESCRIPTION

The Venceip VWM5700 is a member of the VWM-Max E family, a line of WiMAX Broadband Wireless Access systems based on the 802.16e mobile WiMAX standard, specially designed for quadruple-play applications.

VWM5700 is a high-performance mobile WiMAX data card that provides complete 802.16e mobile WiMAX broadband wireless access functionality to a range of personal computers.

The VWM5700 PC card provides high data throughput to business users who needs both bandwidth and mobility on the road. VWM5700 delivers up to 5Mbps throughput for best user experience.

The VWM5700 enables the full scope of triple-play and mobile (including telephony, data, Video-on-Demand, and interactive TV) over the WiMAX network directly to the customer's laptop computer.

VWM5700 WiMAX PC Card is specifically tailored for the diverse needs of mobile end-users. VWM5700 products offer a complete set of data and voice solutions in a single card, eliminating the need to purchase, install and maintain several separate units to support multiple applications.

VWM5700 systems are designed to complement VWM-Max Broadband Wireless Access systems.

VWM5700 Highlights:

- **Mobile-WiMAX compliance** based on IEEE 802.16e standard. WiMAX profile Wave2 compliance
- **Support of worldwide WiMAX deployments** in the 2.X and 3.X GHz bands
- **Quadruple play solution** for Data, Video, Voice and Mobility to personal computer
- **Plug-and-play** installation and operation
- **Excellent performance in NLOS conditions** - overcoming multi-path and deep fading, providing extended range and easy installation
- **Numerous applications and services** - guaranteed voice, video and data services based on advanced QoS levels and a variety of classification/prioritization schemes
- **Low cost of ownership** through simple installation – Microsoft XP drivers - and demand-based build-out, enabling operators to rapidly penetrate new market segments with minimal CAPEX
- **Supports PCMCIA Type II** Interface

VWM5700 Specifications

Radio and Modem:

Frequency	VWM5723: 2300 MHz to 2400 MHz VWM5725: 2496 MHz to 2690 MHz VWM5735: 3300 MHz to 3800 MHz
Radio Access Method	IEEE802.16-2005 (16e OFDMA)
Compatibility	VWM57XX-2: Wave 2 Profile (MIMO)
Operation Mode	TDD
Channel Bandwidth	5 MHz, 7MHz, 8.75 MHz, 10 MHz
Frequency Resolution	0.25 MHz
Antennas	Default: two internal PIFA antennas One external 2dBi Omni antenna (Optional)
Antenna Diversity Support	VWM50XX-2: STC/MIMO
Output Power @ antenna port	22dBm +/-1dB maximum auto power control ranging: 45dB
FFT	1024/512 FFT points
Modulation	QPSK, 16QAM, 64QAM
FEC	Convolution Code and Turbo Code
Dynamic range	Rx: -100dBm :-20 dBm Tx: -23dBm : +22 dBm
Maximum Throughput	DL: 12Mbps, UL: 6Mbps

PC/Notebook Interface

PC Card	PCMACIA Type II Interface
Operating System	Windows XP SP2 Vista (2008)
Power Consumption	<2.5W

Configuration and Management:

Authentication	EAP-TTLS: Device: X509 digital certificate User: MS-CHAP
Software Upgrade	Windows Driver Update

Mechanical, Electrical and Environmental:

LED	Data Link – Green Power - Red
Operating Temperature	0°C to +40°C
Operating Humidity	5%-95% non condensing, Weather protected

Standards Compliance:

EMC	FCC part 15, subpart B, class B
Safety	UL 60950-1, CE
Radio	FCC Part 27 ETSI EN 302 026

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