Features

COMPREHENSIVE WiMAX PRODUCT FAMILY

- Full spectrum of subscriber unit products for indoor and outdoor installation for residential and enterprise applications

STANDARDS BASED

- Adheres to the IEEE 802.16-2004 standard
- Based on the NP7256Wavesat chipset

FUTURE PROOF

- Remote upgrade and software management

LOW COST DESIGN AND THE HIGHEST QUALITY

- Low cost TODAY
- Aggressive cost reductions passed on to the customer
- Backed by a three year warranty

EASE OF INSTALLATION

- Designed for customer installation
- Signal Strength LEDs enable simple installation and acquisition of optimum signal.

Designed to interoperate with the Tranzeo 3GHz family of pico Base Stations, the TR-WMX-3-XX 3.5GHz Outdoor Subscriber Unit is a member of Tranzeo's family of low cost subscriber units based on the IEEE802.16-2004 standard.

All Tranzeo TR-WMX subscriber units are designed for the best price/performance and manufactured at Tranzeo's state of the art manufacturing facility in British Columbia, Canada resulting in the lowest price with the highest quality. The ease of installation of the unit ensures low installation costs by personal with little or no training.

Tranzeo is your one-stop source for your entire indoor and outdoor WiMAX subscriber needs.

TRANZEO ®
WIRELESS TECHNOLOGIES INC.

TR-WMX03_08a...

Specifications

RADIO

Product Operation	LOS, NLOS Point-to-Multipoint Subscriber Unit
RF Band	3.4 to 3.675 GHz[1]
Channel Bandwidths	3.5 MHz, 7MHz selectable
Frequency Resolution	250 kHz steps
Spectral Efficiency	5 bits/sec/Hz (64-QAM unencoded)

Receive Sensitivity typical for BER <10^{-6}	Burst Type	3.5MHz	7MHz
	BPSK $\frac{1}{2}$	-94.0	-91
	QPSK $\frac{1}{2}$	-91.0	-90
	QPSK $\frac{3}{4}$	-90.0	-87
	16-QAM $\frac{1}{2}$	-87.0	-84
	16-QAM $\frac{3}{4}$	-84.0	-81
	64-QAM $\frac{2}{3}$	-80.0	-77
	64-QAM $\frac{3}{4}$	-78.0	-75

Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Radio Access Method	TDD
RF Output Power (64QAM)	+20 dBm max (3.3-3.6GHz) +17 dBm (3.6-3.8GHz)
RF Output Dynamic Range	30 dB
Antenna Options	17dBi or 20dBi integrated antenna or N-type connector

[1]Not all channels approved for use in all areas

DATA COMMUNICATIONS

RF	IEEE 802.16-2004
Data	IEEE 802.3 CSMA/CD
VLAN support	IEEE 802.1Q
Error Control Coding	Concatenated Reed-Solomon Convolutional Code
Polarization	Horizontal or Vertical

MANAGEMENT

LED Display	Signal Strength/Power
Network Protocol	TCP/IP
Encryption Protocol	DES-CBC, AES-CCM
Subscriber Unit monitoring	SNMP, Web-based GUI, Telnet, SSH
Subscriber Unit management	Web-based GUI
Ethernet Connector	10/100 Base- T (Water Tight RJ-45)

ENVIRONMENTAL

Operating Temperature	-40C to +55C
Power requirement	IEEE 802.3 (PoE) and Auxillary POE

STANDARDS AND REGULATIONS

CE/Industry Canada, FCC Part 90 (3.65GHz), EMC: EN 301 489, Safety: EN 60950, Radio: EN 302 217, RoHS

WARRANTY

3 Year Parts and Labor

ORDERING INFORMATION

TR-WMX-3-17-W	Dimensions	10-3/8'' x 8-5/8'' x 2-1/2'' (264mm x 219mm x 64mm)
	Weight	1.79lbs (0.81kg)
TR-WMX-3-20-W	Dimensions	16'' x 14-1/4'' x 2-1/2'' (406mm x 362mm x 64mm)
	Weight	2.2lbs (1kg)
TR-WMX-3-N-W	Dimensions	10-3/8'' x 8-5/8'' x 2-1/2'' (264mm x 219mm x 64mm)
	Weight	1.79lbs (0.81kg)

Specifications are subject to change without notice
Rev 1.2

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TR-WMX03_08b...