



## 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.

The Tranzeo TR-WMX-3.5-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. Tranzeo's family of indoor and outdoor subscriber units are based on a WiMAX Forum Certified™ design to ensure seamless interoperability with all WiMAX Certified™ base stations.

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 personnel with little or no training.

Tranzeo is your one-stop source for all of your indoor and outdoor WiMAX subscriber unit needs.



# Specifications

<b>RADIO</b>			
Product Operation	LOS, NLOS Point-to-Multipoint Subscriber Unit		
RF Band	3.3 to 3.8 GHz <sup>1</sup>		
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 <sup>-6</sup>	Burst Type	3.5MHz	7MHz
	BPSK 1/2	-94.0	-91
	QPSK 1/2	-91.0	-90
	QPSK 3/4	-90.0	-87
	16-QAM 1/2	-87.0	-84
	16-QAM 3/4	-84.0	-81
	64-QAM 1/2	-80.0	-77
	64-QAM 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		
<sup>1</sup> Not all channels approved for use in all areas			
<b>DATA COMMUNICATIONS</b>			
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		
Throughput	Up to 35 Mbps <sup>2</sup>		
<sup>2</sup> Raw data in BER test mode			
<b>MANAGEMENT</b>			
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	10/100Base-T (water tight RJ-45)		
<b>ENVIRONMENTAL</b>			
Operating Temperature	-45°C to +55°C		
Power requirement	IEEE 802.3 (PoE) and Auxillary POE		
<b>STANDARDS AND REGULATIONS</b>			
CE/Industry Canada, FCC Part 90 (3.65GHz), EMC: EN 301 489, Safety: EN 60950, Radio: EN 302 217, IP67, RoHS			
<b>WARRANTY</b>			
3 year parts and labor			
<b>ORDERING INFORMATION</b>			
TR-WMX-3.5-17-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-3.5-20-W	Dimensions	16" x 14-1/4" x 2-1/2" (406mm x 362mm x 64mm)	
	Weight	2.2lbs (1kg)	
TR-WMX-3.5-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 1.1

