



## 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 NP7256 Wavesat 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-5.8-16 5.8GHz 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	5.15 to 5.875 GHz <sup>1</sup>			
Channel Bandwidths	3.5MHz, 5 MHz, 7MHz selectable			
Frequency Resolution	500KHz steps			
Spectral Efficiency	5 bits/sec/Hz (64-QAM unencoded)			
Receive Sensitivity typical at BER <10 <sup>-6</sup>	Burst Type	3.5MHz	5MHz	7MHz
	BPSK 1/2	-95	-93	-92
	QPSK 1/2	-93	-91	-90
	QPSK 3/4	-91	-89	-88
	16-QAM 1/2	-88	-86	-85
	16-QAM 3/4	-85	-83	-81
	64-QAM 2/3	-80	-78	-77
	64-QAM 3/4	-78	-76	-75
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)			
Radio Access Method	TDD			
RF Output Power (64QAM)	+20 dBm max (5.725-5.875GHz)+17dBm (5.15-5.725GHz)			
RF Output Dynamic Range	30 dB			
Antenna	Integrated 16dBi flat panel antenna			
<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	Link / status / 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>PHYSICAL AND ENVIRONMENTAL</b>				
Dimensions	10 <sup>3</sup> / <sub>8</sub> " x 8 <sup>5</sup> / <sub>8</sub> " x 2 <sup>1</sup> / <sub>2</sub> " (264mm x 219mm x 64mm)			
Weight	3lbs (1.35kg)			
Operating Temperature	-45°C to +55°C			
Power requirement	IEEE 802.3 (PoE) and Auxillary POE			
<b>STANDARDS AND REGULATIONS</b>				
CE/Industry Canada EN 302-502, EN301-489, EN55022, IP67				
<b>WARRANTY</b>				
3 years parts and labor				

Specifications are subject to change without notice  
Rev 1.1

Tranzeo Wireless Technologies Inc. (TSX:TZT) leads the wireless broadband industry for value, by producing high-performance wireless network equipment with a low cost of ownership and unparalleled service allowing communities and businesses to communicate without boundaries. Since the company's inception in 2000, Tranzeo's optimum cost effectiveness, premium quality and responsive support have attracted a growing and devoted worldwide following of more than 2,465 dealers and 18 distributors. Tranzeo's full spectrum of point-to-point and point-to-multipoint radios, WiMAX equipment, and mesh network solutions are designed for wireless internet service providers, governments, campuses, military, carriers, enterprise customers, and systems integrators around the globe.

