

Features



TR-WMX-58-pBS deployed with Tranzeo's family of subscriber units is the most cost-effective WiMAX solution for delivering broadband wireless applications in outdoor environments. Tranzeo offers a turn-key solution for last-mile communication encompassing 3.5GHz licensed-band systems and 5.8GHz unlicensed-band systems comprising a low-cost pico Base Station, subscriber units, and an intuitive Element Management System.

All Tranzeo products are 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 complete system ensures low installation costs by personnel with little or no training.

Tranzeo is your one-stop source for all of WiMAX requirements.

COMPREHENSIVE WiMAX PRODUCT FAMILY

- Full spectrum of pico Base Stations and subscriber units products for indoor and outdoor installation delivering residential and enterprise applications

STANDARDS BASED

- Adheres to the IEEE 802.16-2004 standard
- Based on the Wavesat family of products

FUTURE PROOF

- Advanced Element Management System
- Remote upgrade and software management
- Airsync™-ready. An advanced autonomous QoS and real-time provisioning solution from Proximetry

LOW COST DESIGN AND THE HIGHEST QUALITY

- The ideal network topology for incremental build-outs, and guaranteed high-bandwidth applications
- Backed by a one year warranty

EASE OF INSTALLATION

- Designed for customer installation



Specifications

RADIO	
System Capability	LOS, NLOS Point-to-Multipoint Cellular Architecture
RF Band	5.725 to 5.875 GHz
Channel Bandwidth	10 MHz
Frequency Resolution	5 MHz steps
Receiver Sensitivity	-89 dBm (BPSK1/2) -72dBm (64 QAM 2/3)
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Radio Access Method	TDD
RF Output Power	+17 dBm
RF Output Dynamic Range	30 dB
Typical Tx Constellation Error at maximum power	-30dB
Antenna	Selection of Omni and Sector Antennas
DATA COMMUNICATIONS	
RF	IEEE 802.16-2004
Data	IEEE 802.3 CSMA/CD
VLAN support	IEEE 802.1Q
Error Coding	Concatenated Reed-Solomon Convolution Code
MULTI-SERVICE / MULTI-USER SUPPORT	
Traffic Classification	ToS, Protocol, Address, Source Port, MAC Address, User Priority, VLAN ID
VLAN	Address, Mask, MAC Address, ToS type, Port, Rule Priority
QoS—SCHEDULING	
BE, nrTPS, rTPS, UGS	
MANAGEMENT	
Airsync™ Element Management System Protocol	Remote Monitoring, management, and provisioning TCP/IP
Airsync™ OSS—Upgradeable	Autonomous rules-based QoS
HARDWARE SPECIFICATIONS	
Ethernet	10/100 base-T (water tight RJ-45)
Power supply	Power over Ethernet (POE)
Power	15 W maximum
Dimensions	13 ¼" X 10 ¼" X 5 ½" (33.7cm X 26cm X 14cm)
Weight	6.4 lbs (2.9kg)
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-35C to +50C
Weather rating	IP67 weathertight
APPROVALS	
CE/Industry Canada, FCC Part 15, EMC: EN 301 489, Safety: EN 60950, Radio: EN 302 217, RoHS	
WARRANTY	
1 year 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 15 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.

