# Features



TR-WMX-35-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

**TRANZEO®**
WIRELESS TECHNOLOGIES INC.

# Specifications

### RADIO

| | |
|---|---|
| System Capatability | LOS, NLOS Point-to-Multipoint Cellular Architecture |
| RF Band | 3.4 to 3.6 GHz |
| Channel Bandwidth | 3.5 MHz, 7MHz |
| Frequency Resolution | 250 kHz steps |
| Receiver Sensitivity | -95 dBm (BPSK1/2) -79dBm (64 QAM 2/3) |
| Modulation | OFDM (BPSK, QPSK, 16-QAM, 64-QAM) |
| Radio Access Method | TDD |
| RF Output Power | +20 dBm |
| RF Output Dynamic Range | 30 dB |
| Typical Tx Constellation Error at maximum power | -31.5dB |
| Antenna | Selection of antennas from 14-20dBi / Omni and Sector |

### 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 | Remote Monitoring, management, and provisioning |
| Protocol | 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 1/4 | 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, EMC: EN 301 489, Safety: EN 60950, Radio: EN 302 217, RoHS

### WARRANTY
1 year parts and labor

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