

Features



The TR-W16d-3G 3GHz Indoor Subscriber Unit family is interoperable with the Redline RedMax base station and is approved for operation in U.S. in the 3.65GHz band and world-wide from 3.3-3.8GHz. The Tranzeo TR-W16d-3G 3GHz Indoor 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.

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 (Shark) 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.



Specifications

RADIO			
Product Operation	LOS, NLOS Point-to-Multipoint Subscriber Unit		
RF Band	3.3 to 3.8 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 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	SMA connector with external 5dBi omni antenna included		
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		
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	10/100Base-T		
PHYSICAL AND ENVIRONMENTAL			
Dimensions	4 ⁵ / ₈ " x 4 ¹ / ₈ " x 1 ¹ / ₂ " (117mm x 105mm x 38.1mm)		
Weight	13.5oz (378 grams)		
Operating Temperature	0°C to +40°C		
Power requirement	18v DC Power		
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			

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.

