

# RADITEK

## WiMAX 3.4-3.6GHz

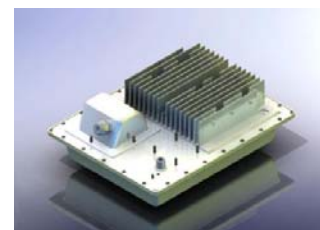
### WiMAX Pico Base Station

3.4-3.6GHz, Nf Antenna Connect,  
20dBm Transmit Power, 15W

#### Key Features

- IEEE 802.16-2004 Compliant
- Based on the Wavesat Chipset
- Up to +20dBm Transmit Power
- Full QoS Traffic Classifier and Scheduling: UGS, rtPS, nrtPS, BE
- IEEE 802.1Q Management VLAN
- IEEE 802.1d Transparent Bridging
- Element Management System (EMS)
- Remote Firmware Upgrade and Software Management
- Power-over-Ethernet (PoE)
- IP67 & NEMA Type 4X Enclosure

**RoHS**  
COMPLIANT  
Code-j8



**Order Examples:** RWiMAX-pBS-3.4-3.6-Nf-20dBm-15W-j8

**Description:** (WiMAX 3.4-3.6 N female Antenna Connect. 20dBm Transmit power, 15W)

#### Economical Pico Base Station

This is a carrier-class WiMAX Pico Base Station (pBS) that is fully compliant with the IEEE 802.16-2004 standard (802.16d). Combined with the full line of subscriber units, provides the most economical turn-key solution for wireless broadband applications in the license-free 5.8GHz band.

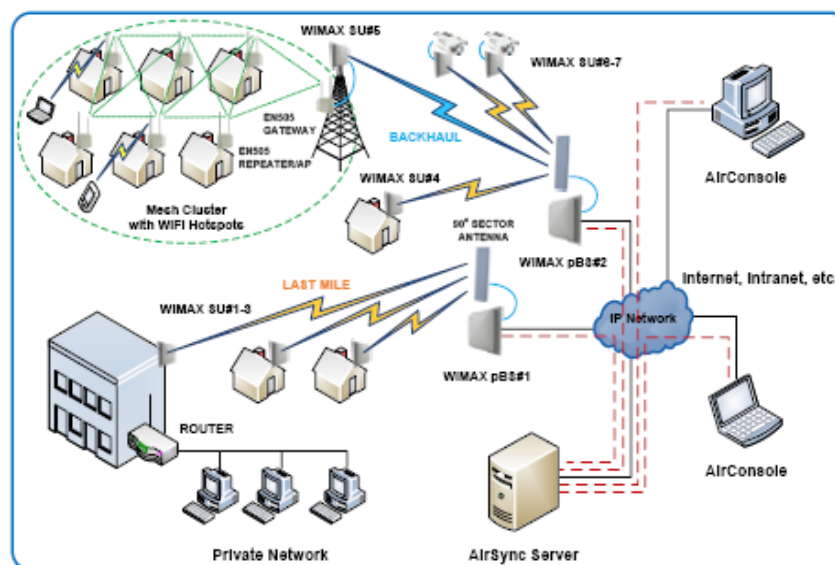
Ideal for rapid deployment and low to medium density applications including rural and enterprise networks, our WiMAX products are designed for the lowest total cost of ownership (TCO) and superior performance, offering incredible return on Investment (ROI), providing the highest quality and lowest price.

The ruggedized weatherproof design meets IP67 and NEMA Type 4X environmental standards, requiring minimum installation and maintenance costs in conditions ranging from -35 to +50°C.

It is also backed by Raditek's 1-Year Parts & Labor Warranty and Technical Support for worry-free network operation.

#### Applications

- Internet Service
- Community Broadband
- Data Acquisition
- Security and Surveillance
- VoIP and IPTV Service
- Backhaul



## WiMAX Pico Base Station

3.4-3.6GHz, Nf Antenna Connect, 20dBm Transmit Power, 15W

Specifications			
Radio Interface and Model Information			
Standards	IEEE 802.16-2004 (802.16d)		
Product Operation	Pico Base Station (LOS, NLOS, Point-to-Multipoint Cellular Architecture)		
Frequency Range	3.4-3.6 GHz		
Channel Bandwidths <sup>(1)</sup>	3.5 MHz, 7 MHz (Selectable)		
Frequency Resolution	250kHz Steps		
Duplex Method	TDD, OFDM 256-FFT		
Adaptive Modulation	64-QAM, 16-QAM, QPSK, BPSK		
Spectral Efficiency	5 bits/sec/Hz (64-QAM un-encoded)		
Receiver Sensitivity	Burst Type	3.5MHz	7MHz
	BPSK ½	-95	-93
	QPSK ½	-93	-90
	QPSK ¾	-91	-86
	16-QAM ½	-87	-83
	16-QAM ¾	-83	-81
	64-QAM ¾	-79	-76
	64-QAM ¾	-76	-73
Transmit Power	+20 dBm (max)		
RF Output Dynamic Range	30 dB		
Tx Constellation Error at Maximum Power	-31.5 dB (Typ.)		
Antenna Connector	N-Type Female Connector		
Networking and Management			
Management, Provisioning & Monitoring	Element Management System		
Network Protocols	TCP/IP, UDP, NAT, DHCP Client/Server, VPN Pass-Through		
Bridging	IEEE 802.1d Transparent Bridge		
VLAN Support	IEEE 802.1Q Management VLAN		
QoS/Scheduling	UGS, rtPS, nrtPS, BE		
QoS/Traffic Classifier	ToS, Protocol, Address, Source Port, MAC address, User Priority, VLAN ID		
Bandwidth Control	Asymmetric Bandwidth Control		
Error Control	Concatenated Reed-Solomon Convolution Code		
Ethernet	1 x 10/100Base-T with Auto-Sense (Water-Tight RJ-45)		
Power Supply			
Power Consumption	15 Watts (max)		
Power Supply	Power over Ethernet (PoE)		
DC Adapter	24VDC/2.0A (INPUT: 120-240VAC~ 50-60Hz, 0.4A) f-Model: Fixed UL Plug (US only) W-Model: Snap-In Plugs for US, UK, and EU included		
Mechanical and Environmental			
Dimensions	13.25" x 10.25" x 5.50" (337mm x 260mm x 140mm)		
Weight	6.4 lbs (2.9 Kg)		
Installation Hardware (included)	PoE Injector with Built-in Surge Protection, DC Adapter, Ethernet Boot Cover with Weatherproof Gasket, L-Bracket and U-Bolt for Pole Mounting, GPS Active Antenna with 3m Cable		
Weather Rating	IP67 and NEMA Type 4X		
Operating Temperature	-35°C to +50°C		
Compliance and Warranty			
Export Control	HTC 8517.69.0000, ECCN 5A002 ENC, ECL 1-5.A.2.A.1		
Compliance & Approvals	RoHS, FCC Part 15, Industry Canada (RSS210), CE! (EMC: EN 301 489, Safety: EN 60950, Radio: EN 302 502)		
Warranty	1-Year Parts and Labour		

(1) Not all channels are approved for use in all regions.