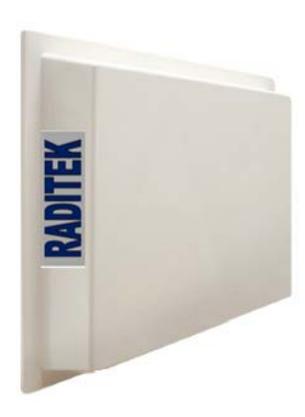# RADITEK

WiMAX
Base Station

Base Station, Carrier Class, Point to Multi-Point

- Full Range of Base Stations and Subscriber products, suitable for Indoor and Outdoor Units.
- Suitable for Enterprise, SOHO and residential applications.
- Suitable for Enterprise, SOHO
- Adheres to IEEE 902.16-2004 standard
- Remote upgradeable
- Advanced management system

The RWiMAX-3.5-BS-P2MP-j8 deployed with RADITEK's family of subscriber units is the most cost-effective WiMAX solution for delivering broadband wireless applications in outdoor environments.

Suitable for last-mile communication encompassing 3.5GHz licensed-band systems and 5.8GHz unlicensed band systems comprising a low-cost Base Station, centrally managed subscriber units, and an intuitive Management System.

The ease of installation of the complete system ensures low installation costs by personnel with little or no training.

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, rTPS

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" X 10⅛" X 2½" (33cm X 25.7cm X 6.4cm)
Weight	10 lbs (4.5kg)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-35C to +50C
Weather rating	IP67 weathertight

APPROVALS

FCC CFR 47 Part 15, Class B , ETSI 302 502, RoHS Compliant

WARRANTY

1 year parts and labor

RWiMAX-3.5-BS-P2MP-j8   Specifications may be subject to change   **04/17/12**

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2 of 2