



## Indoor Subscriber Unit Carrier Class, Point to Multi-Point

Combines 802.11a MESH networking with  
802.11b/g access points for Wi-Fi enabled devices.

- Full Range of Base Stations and Subscriber
- products, suitable for Indoor and Outdoor Units.
- Suitable for Enterprise, SOHO
- and residential applications.
- Adheres to IEEE 802.16-2004 standard
- Remote upgradeable
- Advanced management system



**The RWiMAX-3.5-ISU-P2MP-j8 is a 3.5GHz Indoor Subscriber Unit based on our family of low cost subscriber units based on the IEEE802.16-2004 standard.**

**The family of indoor and outdoor subscriber units are designed to ensure seamless interoperability with all WiMAX Certified TM base stations.**

**All subscriber units are designed for the best price/performance.**

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

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### SPECIFICATIONS

RADIO			
Product Operation	LOS, NLOS Point-to-Multipoint Subscriber Unit		
RF Band	3.3 to 3.8 GHz <sup>1</sup>		
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 <sup>-6</sup>	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 2/3	-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		
<sup>1</sup> 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			
Industry Canada/CE EN 302-502, EN301-489, EN55022			
WARRANTY			
3 year parts and labor			