

RAD-WMX-3.5-ISU

Indoor Subscriber Unit Carrier Class, Point to Multi-Point

Combines 802.11a MESH networking with 802.11b/g access points for WiFi 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 902.16-2004 standard
- Remote upgradeable
- Advanced management system

The RAD-WMX-3.5-ISU 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.

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 1/3	-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		
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			
Industry Canada/CE EN 302-502, EN301-489, EN55022			
WARRANTY			
3 year parts and labor			