



Technical Note

WiMAX 3.65 GHz

MacroMAXe 3605 3650-3675MHz

Connecting the World with Wireless Access Solutions

Revision Record: WiMAX. 3.7GHz		
Pub/ Rev	Date	Update Description
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1. Scope

This document provides a description of the WiMAX 3.65 (3650-3675MHz) product.

2. MacroMAXe(Base Station)

A Base station radio, MacroMAXe 3605, is part of a WiMAX broadband fixed cellular wireless access system. The system provides a radio link between an end-user (a subscriber) and a network to give high-speed data access. The MacroMAX's transceiver/receiver (Up to 64 QAM modulation, data rate up to 43Mbps) uses OFDMA and operating in TDD duplexing mode, equipped with a 2 dBi external antenna. The maximum RF output power (not including antenna gain) is 36.88 dBm and it can be reduced by software.

MacroMAXe 3605 transmitter have two TX channels for MIMO operation mode, and four receivers' channels for RX.

The MacroMAXe is installed outdoors and typically is mounted on a pole. The Subscriber transmits and receives traffic to and from the base station respectively. The transceiver provides subscribers with "always-on" Internet, high speed data only, or data and voice (VoIP) services and is configured with a unique base station reference number, preventing the Subscriber from relocating to another subscriber premises without authorization.

2.1. EUT (MacroMAXe) test configuration

The EUT ports and lines description is given in the table below.

Port type	Port description	Connector type	Quantity	Cable length (m)	Indoor /outdoor	Connected to
DC	48 VDC	DC Connector	1	100	Outdoor	DC P.S
Data	Ethernet	RJ 45	1	100	Outdoor	Eth. Switch