



Technical Note

WiMAX 2560 MHz

MacroMAXe 2510 Mid

Connecting the World with Wireless Access Solutions

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1. Scope

This document provides a description of the WiMAX 2560 MHz product.

2. MacroMAXe (Base Station)

A Base station radio, MacroMAXe 2510 Mid, 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 MacroMAXe's transceiver/receiver (Up to 64 QAM modulation, data rate up to 46 Mbps) uses OFDM and operating in TDD duplexing mode, equipped with a 18 dBi external antenna. The maximum RF output power (not including antenna gain) is 43.28 dBm and it can be reduced by software.

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 ProST 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 |