



Technical Note

WiMAX 3650 MHz
uMAXe / AirGrid 3.65GHz

Connecting the World with Wireless Access Solutions

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1. Scope

This document provides a description of the WiMAX 3650 MHz product.

2. uMAXe (Base Station)

A Base station radio, uMAXe / AirGrid 3.65GHz TDD Ext, 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 uMAXe's transceiver/receiver (up to 64 QAM modulation, data rate up to 46) 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 36.08 dBm and it can be reduced by software.

The uMAXe / AirGrid 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 (uMAXe) 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 |