



Technical Note

# **WiMAX 5.6 GHz**

ProST 5.6GHz

Connecting the World with Wireless Access Solutions

| Revision Record: WiMAX 5.6GHz |           |                           |
|-------------------------------|-----------|---------------------------|
| Pub/ Rev                      | Date      | Update Description        |
| 01                            | August-20 | Airspan. Author: InterDoc |
|                               |           |                           |
|                               |           |                           |
| Publication No. 28080511-01   |           |                           |

© Copyright by **Airspan Networks LTD.**, 2003. All rights reserved worldwide.

The information contained in this document is proprietary and is subject to all relevant copyright, patent and other laws protecting intellectual property, as well as any specific agreement protecting **Airspan Networks LTD.** rights in the aforesaid information. Neither this document nor the information contained herein may be published, reproduced or disclosed to third parties, in whole or in part, without the express, prior, written permission of **Airspan Networks LTD.** In addition, any use of this document or the information contained herein for any purposes other than those for which it was disclosed is strictly forbidden.

**Airspan Networks LTD.** reserves the right, without prior notice or liability, to make changes in equipment design or specifications.

Information supplied by **Airspan Networks LTD.** is believed to be accurate and reliable. However, no responsibility is assumed by **Airspan Networks LTD.** for the use thereof nor for the rights of third parties which may be effected in any way by the use thereof.

Any representation(s) in this document concerning performance of **Airspan Networks LTD.** product(s) are for informational purposes only and are not warranties of future performance, either express or implied. **Airspan Networks LTD.** standard limited warranty, stated in its sales contract or order confirmation form, is the only warranty offered by **Airspan Networks LTD.** in relation thereto.

This document may contain flaws, omissions or typesetting errors; no warranty is granted nor liability assumed in relation thereto unless specifically undertaken in Airspan Networks LTD. sales contract or order confirmation. Information contained herein is periodically updated and changes will be incorporated into subsequent editions. If you have encountered an error, please notify Airspan Networks LTD. All specifications are subject to change without prior notice.

# 1. Scope

This document provides a description of the WiMAX 5.6GHz product.

# 2. ProST

A subscriber premises radio, ProST 5.6GHz TDD Int., 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 ProST's transceiver/receiver (Up to 64 QAM modulation, data rate up to 37Mbps) uses OFDM and operating in TDD duplexing mode, equipped with a 17.5 dBi internal antenna. The maximum RF output power (not including antenna gain) is 9.1 dBm.

The ProST is installed outdoors and typically is mounted on a pole. The ProST transmits and receives traffic to and from the base station (i.e. BSR) 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 BSR reference number, preventing the ProST from relocating to another subscriber premises without authorization. The ProST radio has the same PCB components as the EasyST, and differs only chassis and 48V adapter.

## 2.1. EUT (ProST) test configuration

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

| Port type | Port description  | Connector type | Quantity | Cable type                | Cable length (m) | Indoor /outdoor | Connected to |
|-----------|-------------------|----------------|----------|---------------------------|------------------|-----------------|--------------|
| Data + DC | 48 VDC + Ethernet | 15-pin D-type  | 1        | Cat. 5 – 4x2 twisted pair | 100              | Outdoor         | SDA          |