



Technical Note

**WiMAX 5.8 GHz**  
ProST 5.8GHz

Connecting the World with Wireless Access Solutions

Revision Record: WiMAX 5.8 GHz		
Pub/ Rev	Date	Update Description
01	August-06	Airspan. Author: InterDoc
Publication No. 28080511-01		

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## 1. Scope

This document provides a description of the WiMAX 5.8 GHz product.

## 2. ProST

A subscriber premises radio, ProST 5.8 GHz 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 36 Mbps) uses OFDM and operating in TDD duplexing mode, equipped with a 17 dBi internal antenna. The maximum RF output power (not including antenna gain) is 19dBm and it can be reduced by software.

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