



Technical Note

# **WiMAX 5.6 GHz**

EasyST 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		

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## 1. Scope

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

## 2. EasyST

A subscriber premises radio, EasyST 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 EasyST's transceiver/receiver (Up to 64 QAM modulation, data rate up to 12Mbps) uses OFDM and operating in FDD duplexing mode, equipped with a 9 dBi antenna. The maximum RF output power (not including antenna gain) is 17.6 dBm and it can be reduced by software.

The EasyST is a safe install unit and located indoor. The EasyST 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 EasyST from relocating to another subscriber premises without authorization.

### 2.1. EUT (EasyST) 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
DC	6 VDC	DC	1	-	1	Indoor	DC PS
RJ45	Ethernet.	RJ45	1	RJ45	1	Indoor	PC
Antenna	RF output/input	MCX	1	-	-	Indoor	External antenna