



Technical Note

LTE 3500MHz

AirUnity 3.55-3.7GHz (B48)

Connecting the World with Wireless Access Solutions

AirUnity 3.55-3.7GHz (B48)		
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1. Scope

This document provides a description of the LTE AirUnity product.

2. AirUnity (Mobile Digital Stations)

The EUT, Mobile Digital station, AirUnity 3.55-3.7GHz, Band 48, is part of a LTE 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 AirUnity's transceiver/receiver (Up to 256 QAM modulation, data rate up to 143 Mbps) equipped with a 10dBi internal antenna. Advanced Antenna Techniques 2x2 MIMO are supported. The maximum RF output power (not including antenna gain) is 22.49 dBm for 10dBi and it can be reduced by software.

Antennas 1/2 is one sector and antennas 3/4 is another sector.

The AiUnity is installed indoors. 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 LTE UE from relocating to another subscriber premises without authorization.

Note:The AirUnity equipment defined as Category A CBSD (Citizens Broadband Radio Service Device)

Antennas 1/2 arrange one sector while antenna 1 is cross polarized to antenna 2 and antennas 3/4 arrange another sector while antenna 3 is cross polarized to antenna 4. The transmitter output signals are completely uncorrelated.

The transmitter output signal are completely uncorrelated, antennas 1 / 2 is one sector and antennas 3 / 4 is another sector!