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Exhibits & Supporting Information for STA

The primary purpose was to Research, development and testing of an LTE-based air-to-ground system (DA2G) that will provide broadband connectivity and internet service to aircraft during flights.

Fixed station: (FX)

Transmitter manufacture - Airspan Networks Inc.

Transmitter Model Number – HAR10-CN-U53-B0

The fixed stations (FX) mentioned in this document will be mounted as mentioned below:

- 1) Boca Raton, Florida – on top of the building as shown in Figure 1.

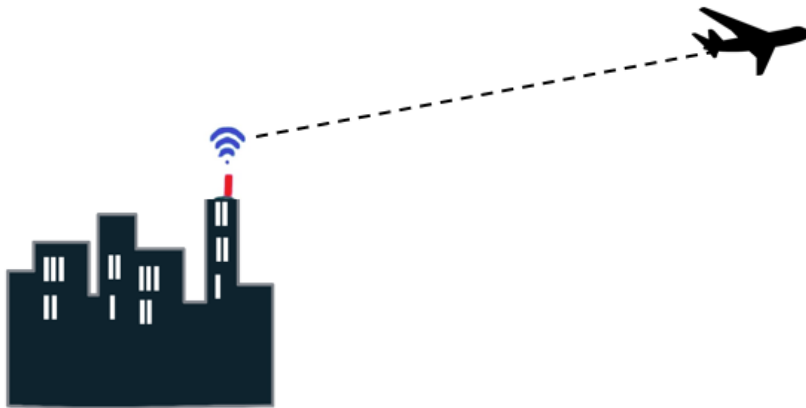


Figure 1.

Fixed Stations Antennas:

An Alpha wireless AW3003 antenna will be used as commercial off the shelf (COTS) for the air to ground solution.

Antenna parameters: Uptilt – 6 Degrees, Polarization – +/- 45° Slant, Gain – 17dBi, Azimuth beam width – 90° , Elevation Beam width – 7°.

Mobile Station: (MO)

Transmitter manufacture - Airspan Networks Inc.

Transmitter Model Number – IR468D-BFO-FD1

The mobile stations mentioned in this document will be mounted as mentioned below:

- a) Equipment is installed inside the aircraft
- b) Aircraft antenna is mounted under the bottom of the aircraft.

Mobile Stations Antennas:

An Alpha wireless AW3587 antenna will be used as commercial off the shelf (COTS) for the air to ground solution. In addition, it mounted inside the aircraft antenna enclosure.

Antenna parameters: Polarization – +/- 45° dual Slant, Gain – 9 dBi, Azimuth HPBW – 60° , Elevation HPBW – 35°.

Fixed Stations Locations:

Boca Raton, Florida – 3 units

- Latitude – North 26 23 41
- Longitude – West 80 6 1
- Antenna height – less than 1 meter from to top building to tip of antenna
- Center Frequency – 2490 MHz
- Bandwidth – 10 MHz
- Emission designator – 10M0G7W
- EIRP – 43 (dBm)
- Orientation – 112, 232, 352 radial

Mobile Stations Locations:

A mobile station or aircraft is operated 20 km radius of fixed station location as described above.

Aircraft/ Mobile

- Center Frequency – 2490 MHz
- Bandwidth – 10 MHz
- Emission designator – 10M0G7W
- EIRP – 30 (dBm)