

**Directional Antenna Exhibit: FCC STA File 1011-EX-ST-2020**

Ground station is a land based mobile platform in place for the duration of the balloon flight only and will be used for command/control communications with the balloon and to downlink high-rate payload data from the balloon. Balloons may also relay data to other balloons in a mesh network, but at a much lower EIRP.

Antenna Characteristics	Configuration
<i>Description</i>	Dual 2-channel dish
<i>Half-Power beam width</i>	13.4°
<i>Horizontal Orientation</i>	Variable, direction of flight
<i>Vertical Orientation</i>	Variable, typ. 10 - 50°
<i>Gain</i>	24 dBi

