

Directional Antenna Exhibit: FCC STA File 0708-EX-ST-2022

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.

There are two possible configurations that may be used.

Antenna Characteristics	Configuration
<i>Description</i>	Dual polarized dual 2-ft dish
<i>Half-Power beam width</i>	7.1°
<i>Horizontal Orientation</i>	Variable, direction of flight
<i>Vertical Orientation</i>	Variable, typ. 10 - 50°
<i>Gain</i>	26.6 dBi

Or,

Antenna Characteristics	Configuration
<i>Description</i>	Dual polarized single 3-ft dish
<i>Half-Power beam width</i>	4.7°
<i>Horizontal Orientation</i>	Variable, direction of flight
<i>Vertical Orientation</i>	Variable, typ. 10 - 50°
<i>Gain</i>	30 dBi

