

**Ground station and antenna information for FCC
Lambdasat project
3/3/2014**

Coordinates of ground station: 36.8 North Latitude and -121.5 West Longitude.
Typical Amateur radio station with capabilities on HF/VHF and UHF amateur radio frequencies.
Station's call sign: AA6W

Antenna Information:

Log Periodic directional antenna.

The Elk Model Log Periodic antenna is rated at* 2M Gain 6.6 dbd 440 Gain 7 dBd, and 20 +dB
Front to Back Ratio * 24 inch boom Length * 1:1 SWR 144-148 Mhz, 430-450 Mhz * 200W
Max Power

At least 200 watts of RF power being realized at the antenna.

The beamwidth of this antenna is approximately 20 degrees, in the Vertical plane.

Approximately 50 meters above sea-level, and

Approximately 150 to 205 miles radius of communications.