

Location	Satellite		Tukwila & Redmond, WA		Alaska Satellite Facility		Prudhoe Bay, AK		New Zealand		Spaceport America, NM	
Link (Main, UHF)	Main	UHF	Main	UHF	Main	UHF	Main	UHF	Main	UHF	Main	UHF
Antenna Manufacturer			Orbit CS	M2 Antenna Systems Inc	ViaSat	M2 Antenna Systems Inc	Orbit CS	M2 Antenna Systems Inc	Orbit CS	M2 Antenna Systems Inc	Orbit CS	M2 Antenna Systems Inc
Antenna Model			GAIA-100-3.7-S/X	450CP34	9.1 m antenna	450CP34	GAIA-100-3.7-S/X	450CP34	GAIA-100-3.7-S/X	450CP34	GAIA-100-3.7-S/X	450CP34
Number of Antennas	1	1	1	1	1	1	1	1	1	1	1	1
Address, City, State	Mobile, LEO Orbit: 720 x 450 km, 97.4° inclination	Mobile, LEO Orbit: 720 x 450 km, 97.4° inclination	6742 185th Ave, NE Redmond, WA 98052	3415 S 116th St #123, Tukwila, WA	903 N Koyukuk Dr Fairbanks, AK 99775	903 N Koyukuk Dr Fairbanks, AK 99775	Track 11, North Slope Lease Tracts, Umiat Meridian, AK	Track 11, North Slope Lease Tracts, Umiat Meridian, AK	26 Awarua Siding Road, Greenhills 9877, New Zealand	26 Awarua Siding Road, Greenhills 9877, New Zealand	234 Aleman Rd Truth or Consequences, NM 87901	234 Aleman Rd Truth or Consequences, NM 87901
Lat/Long coordinates in minutes,seconds	Mobile, LEO	Mobile, LEO	47° 40' 00.88" N, 122° 05' 34.02" W	47° 29' 55.44" N, 122° 17' 23.64" W	64° 47' 37.0" N, 147° 32' 10.8" W	64° 47' 37.0" N, 147° 32' 10.8" W	70° 13' 28.42" N, 148° 25' 38.02" W	70° 13' 28.42" N, 148° 25' 38.02" W	46° 31.730' S, 168° 22.870' E	46° 31.730' S, 168° 22.870' E	32° 59' 46.8" N, 106° 59' 3.9" W	32° 59' 46.8" N, 106° 59' 3.9" W
Site Elevation AMSL	Mobile, LEO	Mobile, LEO	33 m AMSL	15.9 m AMSL	144 m AMSL	144 m AMSL	9.1 AMSL	9.1 AMSL	11 m AMSL	11 m AMSL	1415 m AMSL	1415 m AMSL
Frequencies	8080 MHz	401-402 MHz	2071.875 MHz	449.75-451.25 MHz	2071.875 MHz	449.75-451.25 MHz	2071.875 MHz	449.75-451.25 MHz	2071.875 MHz	449.75-451.25 MHz	2071.875 MHz	449.75-451.25 MHz
Output Power (W)	8 W	2 W	25 W	5 W	15 W	5 W	25 W	5 W	25 W	5 W	25 W	5 W
ERP (W)	124.5 W	2.07 W	21.564 KW	63 W	184 kW	63 W	21.564 KW	63 W	21.564 KW	63 W	21.564 KW	63 W
Frequency tolerance	*	*	*	*	*	*	*	*	*	*	*	*
Emissions (bandwidth of signal plus emission type)	110MG1D	825KG1D	88K0G1D	27K6G1D	88K0G1D	27K6G1D	88K0G1D	27K6G1D	88K0G1D	27K6G1D	88K0G1D	27K6G1D
Modulating Signal	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information	A single channel containing digital information

*In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above