

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Date: 05/20/2021
Job Number: <PCNJobCode>

Administrative Information

Status: TEMPORARY (Operation from 08/30/2021 to 02/28/2022)
Call Sign: <PCNCallSign>
Licensee Code: ENVIST
Licensee Name: ENVISTACOM

Site Information

FREDERICK, MD
Venue Name
Latitude (NAD 83): 39° 22' 49.0" N
Longitude (NAD 83): 77° 25' 3.0" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 96.99 m / 318.2 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 89° W to 89° West Longitude
Azimuth Range: 197.9° to 197.9°
Corresponding Elevation Angles: 42.9° / 42.9°
Antenna Centerline (AGL): 3.66 m / 12.0 ft

Antenna Information

Transmit - FCC32
Manufacturer: GD Satcom
Model: 2.4 meter
Gain / Diameter: 42.2 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -29.0
(dBW/MHz): -5.0

Maximum EIRP (dBW/4 kHz): 13.2
(dBW/MHz): 37.2

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz): 12M0G7W / 6189.1 - 6201.1

Max Great Circle Coordination Distance: 100.0 km / 62.1 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

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Antenna Model	GD Satcom 2.4 meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-29.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	134.23	-10.00	100.00
5	0.00	135.61	-10.00	100.00
10	0.00	136.56	-10.00	100.00
15	0.00	137.07	-10.00	100.00
20	0.00	137.10	-10.00	100.00
25	0.00	136.67	-10.00	100.00
30	0.00	135.79	-10.00	100.00
35	0.00	134.48	-10.00	100.00
40	0.00	132.78	-10.00	100.00
45	0.00	130.74	-10.00	100.00
50	0.00	128.39	-10.00	100.00
55	0.21	125.92	-10.00	100.00
60	0.00	122.95	-10.00	100.00
65	0.22	120.05	-10.00	100.00
70	0.29	116.90	-10.00	100.00
75	0.32	113.60	-10.00	100.00
80	0.45	110.21	-10.00	100.00
85	0.53	106.72	-10.00	100.00
90	0.70	103.17	-10.00	100.00
95	0.52	99.50	-10.00	100.00
100	0.54	95.83	-10.00	100.00
105	0.69	92.15	-10.00	100.00
110	0.46	88.45	-10.00	100.00
115	0.33	84.77	-10.00	100.00
120	0.47	81.09	-10.00	100.00
125	0.46	77.46	-10.00	100.00
130	0.44	73.87	-10.00	100.00
135	0.57	70.30	-10.00	100.00
140	0.58	66.85	-10.00	100.00
145	0.61	63.48	-10.00	100.00
150	0.45	60.32	-10.00	100.00
155	0.58	57.18	-10.00	100.00
160	0.62	54.25	-10.00	100.00
165	0.63	51.55	-10.00	100.00
170	0.48	49.24	-10.00	100.00
175	0.45	47.14	-9.83	100.00
180	0.32	45.47	-9.44	100.00
185	0.00	44.39	-9.18	100.00

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Max Available RF Power	-29.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.44	-8.95	100.00
195	0.00	42.93	-8.82	100.00
200	0.00	42.90	-8.81	100.00
205	0.00	43.33	-8.92	100.00
210	0.00	44.21	-9.14	100.00
215	0.00	45.52	-9.45	100.00
220	0.00	47.22	-9.85	100.00
225	0.00	49.26	-10.00	100.00
230	0.00	51.61	-10.00	100.00
235	0.23	54.07	-10.00	100.00
240	0.30	56.87	-10.00	100.00
245	0.37	59.87	-10.00	100.00
250	0.44	63.03	-10.00	100.00
255	0.50	66.33	-10.00	100.00
260	0.64	69.72	-10.00	100.00
265	0.72	73.23	-10.00	100.00
270	0.94	76.78	-10.00	100.00
275	1.12	80.41	-10.00	100.00
280	1.22	84.10	-10.00	100.00
285	1.00	87.84	-10.00	100.00
290	0.90	91.56	-10.00	100.00
295	1.03	95.29	-10.00	100.00
300	0.82	98.96	-10.00	100.00
305	0.74	102.60	-10.00	100.00
310	0.73	106.20	-10.00	100.00
315	0.63	109.72	-10.00	100.00
320	0.53	113.14	-10.00	100.00
325	0.48	116.46	-10.00	100.00
330	0.45	119.67	-10.00	100.00
335	0.00	122.48	-10.00	100.00
340	0.00	125.34	-10.00	100.00
345	0.00	127.99	-10.00	100.00
350	0.00	130.38	-10.00	100.00
355	0.00	132.48	-10.00	100.00