

# COMSEARCH

## Earth Station Data Sheet

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

Date: 10/18/2011  
Job Number: <PCNJobCode>

### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign <PCNCallSign>  
Licensee Code  
Licensee Name DNETGROUP INC

### Site Information MIAMI GARDEN, FL

Venue Name  
Latitude (NAD 83) 25° 55' 39.4" N  
Longitude (NAD 83) 80° 15' 27.4" W  
Climate Zone B  
Rain Zone 1  
Ground Elevation (AMSL) 2.2 m / 7.2 ft

### Link Information

Satellite Type Geostationary  
Mode TO - Transmit-Only  
Modulation Digital  
Satellite Arc 15° West Longitude Only  
Azimuth Range 101.4°  
Corresponding Elevation Angles 13.7°  
Antenna Centerline (AGL) 3.66 m / 12.0 ft

### Antenna Information Transmit - FCC32

Manufacturer Prodelin  
Model 1383  
Gain / Diameter 53.2 dBi / 3.8 m  
3-dB / 15-dB Beamwidth 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz) -14.0  
(dBW/MHz) 10.0

Maximum EIRP (dBW/4 kHz) 39.2  
(dBW/MHz) 63.2

Interference Objectives: Long Term -151.0 dBW/4 kHz 20%  
Short Term -128.0 dBW/4 kHz 0.0025%

### Frequency Information Transmit 14.0 GHz

Emission / Frequency Range (MHz) 6M00G7D / 14000.0 - 14500.0

Max Great Circle Coordination Distance 177.4 km / 110.2 mi  
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

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### Coordination Values

### MIAMI GARDEN, FL

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Ground Elevation (AMSL)	2.2 m / 7.2 ft		
Antenna Centerline (AGL)	3.66 m / 12.0 ft		
Antenna Model	Prodelin 1383		
Antenna Mode	Transmit 14.0 GHz		
Interference Objectives:	Long Term	-151.0 dBW/4 kHz	20%
	Short Term	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power	-14.0 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.07	-10.00	125.11
5	0.00	96.21	-10.00	125.11
10	0.00	91.36	-10.00	125.11
15	0.00	86.50	-10.00	125.11
20	0.00	81.64	-10.00	125.11
25	0.00	76.79	-10.00	125.11
30	0.00	71.94	-10.00	125.11
35	0.00	67.10	-10.00	125.11
40	0.00	62.27	-10.00	125.11
45	0.00	57.47	-10.00	125.11
50	0.00	52.68	-10.00	125.11
55	0.00	47.92	-10.00	125.11
60	0.00	43.20	-8.89	128.76
65	0.00	38.54	-7.65	132.92
70	0.00	33.96	-6.27	137.63
75	0.00	29.49	-4.74	143.01
80	0.00	25.21	-3.04	147.26
85	0.00	21.22	-1.17	154.83
90	0.00	17.72	0.79	163.57
95	0.00	15.06	2.56	172.18
100	0.00	13.73	3.56	177.37
105	0.00	14.12	3.25	175.77
110	0.00	16.10	1.83	168.55
115	0.00	19.19	-0.08	159.60
120	0.00	22.94	-2.01	151.31
125	0.00	27.08	-3.81	144.35
130	0.00	31.45	-5.44	140.54
135	0.00	35.97	-6.90	135.47
140	0.00	40.59	-8.21	131.02
145	0.00	45.28	-9.40	127.08
150	0.00	50.02	-10.00	125.11
155	0.00	54.79	-10.00	125.11
160	0.00	59.59	-10.00	125.11
165	0.00	64.41	-10.00	125.11
170	0.00	69.24	-10.00	125.11
175	0.00	74.08	-10.00	125.11
180	0.00	78.93	-10.00	125.11
185	0.00	83.79	-10.00	125.11

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Antenna Model	Prodelin 1383
Antenna Mode	Transmit 14.0 GHz
Interference Objectives: Long Term	-151.0 dBW/4 kHz 20%
Short Term	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	-14.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	88.64	-10.00	125.11
195	0.00	93.50	-10.00	125.11
200	0.00	98.36	-10.00	125.11
205	0.00	103.21	-10.00	125.11
210	0.00	108.06	-10.00	125.11
215	0.00	112.90	-10.00	125.11
220	0.00	117.73	-10.00	125.11
225	0.00	122.53	-10.00	125.11
230	0.00	127.32	-10.00	125.11
235	0.00	132.08	-10.00	125.11
240	0.00	136.80	-10.00	125.11
245	0.00	141.46	-10.00	125.11
250	0.00	146.04	-10.00	125.11
255	0.00	150.51	-10.00	125.11
260	0.00	154.79	-10.00	125.11
265	0.00	158.78	-10.00	125.11
270	0.00	162.28	-10.00	125.11
275	0.00	164.94	-10.00	125.11
280	0.00	166.27	-10.00	125.11
285	0.00	165.88	-10.00	125.11
290	0.00	163.90	-10.00	125.11
295	0.00	160.81	-10.00	125.11
300	0.00	157.06	-10.00	125.11
305	0.00	152.92	-10.00	125.11
310	0.00	148.55	-10.00	125.11
315	0.00	144.03	-10.00	125.11
320	0.00	139.41	-10.00	125.11
325	0.00	134.72	-10.00	125.11
330	0.00	129.98	-10.00	125.11
335	0.00	125.21	-10.00	125.11
340	0.00	120.41	-10.00	125.11
345	0.00	115.59	-10.00	125.11
350	0.00	110.76	-10.00	125.11
355	0.00	105.92	-10.00	125.11