

Ka, Q/V-Band Earth Station – Elbert, CO.

Frequency Coordination Report

Ka, Q/V-Band

Receive: 37.5 – 42.5 GHz Transmit: 27.5 – 31.0 GHz, 47.2 – 50.2, 50.4 – 52.4 GHz



Prepared on Behalf of
SPACE EXPLORATION
HOLDINGS

April 29, 2026



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1. Summary of Results

On behalf of SPACE EXPLORATION HOLDINGS, Comsearch performed a coordination notice under Section 25.203(c) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka, Q/V-band earth station in Elbert, CO, which will receive at 40 GHz and transmit at 28 and 50 GHz¹. Prior-notification letters were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on April 27, 2026.

There are no unresolved objections from any of the incumbent 28/40/50 GHz licensees.

2. 28/40/50 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the Ka, Q/V-band earth station in Elbert, CO was prior-coordinated by Comsearch. A notification letter and datasheets for this earth station were sent to the following 28/40/50 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
Telstar Communications	Statewide: CO

A notification letter and datasheets for the Ka, Q/V-band earth station in Elbert, CO were also sent to the following 40 GHz LTTS licensee. This licensee is authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a market basis.

Licensee	Authorized Geographic Area
Broadcast Sports International, LLC	Nationwide
Remote Facilities Consulting Services Inc.	Nationwide
DCI II Inc	Nationwide

No objections were received from the common carrier or LTTS incumbents.

¹ The proposed earth station will receive in the 37.5 – 42.5 GHz & transmit in the 47.2-50.2 GHz / 50.4-52.4 GHz portion of the Q/V-Band. Ka-band transmissions will be in the 27.5 – 31.0 GHz band.

3. 28/40/50 GHz UMFUS Coordination

There were ten 28/40/50 GHz UMFUS licensees identified within the coordination distance of the proposed earth station. The proposed earth station will operate on frequencies that overlap portions of the UMFUS service which includes the following frequency ranges:

27.5 GHz – 31.0 GHz
37.5 GHz – 42.5 GHz
47.2 GHz – 50.2 GHz

Licensee	Authorized Geographic Area
AT&T	Market Based
Blue Ridge Wireless	Market Based
Columbia Capital	Market Based
DISH Network	Market Based
UBET	Market Based
Alta	Market Based
T-Mobile	Market Based
Monarch Wireless	Market Based
Verizon	Market Based
David Behanna	Market Based

There were no specific objections from the UMFUS incumbents within the coordination distance at the end of the coordination period.



4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka, Q/V-band earth station in Elbert, CO. This data was circulated to all incumbent licensees in the shared 28/40/50 GHz frequency ranges.

Date: 03/25/2026
Job Number: 260326COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ELBERT, CO
Venue Name: HOA-LESS
Latitude (NAD 83): 39° 17' 33.1" N
Longitude (NAD 83): 104° 30' 14.4" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 1988.35 m / 6523.5 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Manufacturer: SpaceX
Model: 1.99 meter
Gain / Diameter: 50.0 dBi / 2.0 m
3-dB / 15-dB Beamwidth: 0.50° / 1.00°

Receive - FCC32

SpaceX
1.99 meter
50.0 dBi / 2.0 m
0.50° / 1.00°

Transmit - FCC32

SpaceX
1.99 meter
53.9 dBi / 2.0 m
0.30° / 0.60°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-40.8
-16.8

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

13.1
37.1

Aggregate EIRP (dBW/MHz)

37.1

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-151.0 dBW/4 kHz 20%
-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)
60M0D7W - 480MD7W / 17300.0 - 17800.0
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18600.0 - 18800.0
60M0D7W - 480MD7W / 18800.0 - 19300.0
60M0D7W - 480MD7W / 19300.0 - 19700.0
60M0D7W - 480MD7W / 19700.0 - 20200.0
60M0D7W - 480MD7W / 20200.0 - 21200.0

Receive 18.0 GHz

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29100.0 - 29500.0
60M0D7W - 480MD7W / 29500.0 - 30000.0
60M0D7W - 480MD7W / 30000.0 - 31000.0

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

225.0 km / 139.8 mi
100.0 km / 62.1 mi

100.0 km / 62.1 mi
100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Elbert, CO
Frequency Coordination Report
28/40/50 GHz

Coordination Values			ELBERT, CO			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			39° 17' 33.1" N			
Longitude (NAD 83)			104° 30' 14.4" W			
Ground Elevation (AMSL)			1988.35 m / 6523.5 ft			
Antenna Centerline (AGL)			1.7 m / 5.6 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives:			Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz
			Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz
Max Available RF Power			-40.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.83	81.33	0.00	225.00	0.00	100.00
5	1.62	76.67	0.00	225.00	0.00	100.00
10	1.55	72.02	0.00	225.00	0.00	100.00
15	1.61	67.40	0.00	225.00	0.00	100.00
20	1.31	62.75	0.00	225.00	0.00	100.00
25	0.82	58.07	0.00	225.00	0.00	100.00
30	0.32	53.39	0.00	225.00	0.00	100.00
35	0.00	48.79	0.00	225.00	0.00	100.00
40	0.00	44.34	0.00	225.00	0.00	100.00
45	0.00	40.00	0.00	225.00	0.00	100.00
50	0.00	35.79	0.00	225.00	0.00	100.00
55	0.00	31.78	0.00	225.00	0.00	100.00
60	0.37	28.31	0.00	225.00	0.00	100.00
65	0.56	25.18	0.00	225.00	0.00	100.00
70	0.65	22.61	0.00	225.00	0.00	100.00
75	0.64	20.78	0.00	225.00	0.00	100.00
80	0.67	20.06	0.00	225.00	0.00	100.00
85	0.71	20.52	0.00	225.00	0.00	100.00
90	0.90	22.23	0.00	225.00	0.00	100.00
95	0.87	24.62	0.00	225.00	0.00	100.00
100	1.23	27.95	0.00	225.00	0.00	100.00
105	1.23	31.45	0.00	225.00	0.00	100.00
110	1.30	35.33	0.00	225.00	0.00	100.00
115	1.37	39.42	0.00	225.00	0.00	100.00
120	1.35	43.63	0.00	225.00	0.00	100.00
125	1.64	48.08	0.00	225.00	0.00	100.00
130	1.67	52.51	0.00	225.00	0.00	100.00
135	1.69	57.01	0.00	225.00	0.00	100.00
140	1.72	61.56	0.00	225.00	0.00	100.00
145	1.72	66.14	0.00	225.00	0.00	100.00
150	1.73	70.75	0.00	225.00	0.00	100.00
155	1.59	75.37	0.00	225.00	0.00	100.00
160	1.61	80.02	0.00	225.00	0.00	100.00
165	1.43	84.67	0.00	225.00	0.00	100.00
170	1.42	89.35	0.00	225.00	0.00	100.00
175	1.15	94.03	0.00	225.00	0.00	100.00
180	0.90	98.72	0.00	225.00	0.00	100.00
185	0.76	103.41	0.00	225.00	0.00	100.00

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Elbert, CO
Frequency Coordination Report
28/40/50 GHz

Coordination Values		ELBERT, CO				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		39° 17' 33.1" N				
Longitude (NAD 83)		104° 30' 14.4" W				
Ground Elevation (AMSL)		1988.35 m / 6523.5 ft				
Antenna Centerline (AGL)		1.7 m / 5.6 ft				
Antenna Model		SpaceX 1.99 meter				
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz		
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%	
		Short Term	0.01%	-128.0 dBW/4 kHz	0.0025%	
Max Available RF Power		-40.8 (dBW/4 kHz)				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.82	108.07	0.00	225.00	0.00	100.00
195	0.72	112.74	0.00	225.00	0.00	100.00
200	0.48	117.41	0.00	225.00	0.00	100.00
205	0.58	121.99	0.00	225.00	0.00	100.00
210	0.70	126.51	0.00	225.00	0.00	100.00
215	0.85	130.95	0.00	225.00	0.00	100.00
220	1.05	135.27	0.00	225.00	0.00	100.00
225	1.24	139.47	0.00	225.00	0.00	100.00
230	1.34	143.54	0.00	225.00	0.00	100.00
235	1.43	147.39	0.00	225.00	0.00	100.00
240	1.72	150.78	0.00	225.00	0.00	100.00
245	1.92	153.76	0.00	225.00	0.00	100.00
250	2.06	156.15	0.00	225.00	0.00	100.00
255	2.20	157.71	0.00	225.00	0.00	100.00
260	2.15	158.46	0.00	225.00	0.00	100.00
265	2.18	158.04	0.00	225.00	0.00	100.00
270	2.23	156.56	0.00	225.00	0.00	100.00
275	2.33	154.20	0.00	225.00	0.00	100.00
280	2.42	151.20	0.00	225.00	0.00	100.00
285	2.53	147.73	0.00	225.00	0.00	100.00
290	2.70	143.91	0.00	225.00	0.00	100.00
295	2.94	139.83	0.00	225.00	0.00	100.00
300	3.21	135.60	0.00	225.00	0.00	100.00
305	3.41	131.28	0.00	225.00	0.00	100.00
310	3.35	126.97	0.00	225.00	0.00	100.00
315	3.09	122.63	0.00	225.00	0.00	100.00
320	3.14	118.14	0.00	225.00	0.00	100.00
325	3.02	113.64	0.00	225.00	0.00	100.00
330	2.69	109.12	0.00	225.00	0.00	100.00
335	2.53	104.54	0.00	225.00	0.00	100.00
340	2.32	99.93	0.00	225.00	0.00	100.00
345	2.32	95.29	0.00	225.00	0.00	100.00
350	2.33	90.65	0.00	225.00	0.00	100.00
355	2.19	86.00	0.00	225.00	0.00	100.00

Date: 03/25/2026
Job Number: 260326COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ELBERT, CO
Venue Name: HOA-LESS
Latitude (NAD 83): 39° 17' 33.1" N
Longitude (NAD 83): 104° 30' 14.4" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 1988.35 m / 6523.5 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
55.9 dBi / 2.0 m
0.25° / 0.50°

Transmit - FCC32

SpaceX
1.99 meter
58.1 dBi / 2.0 m
0.20° / 0.40°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-47.8
-23.8

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

10.3
34.3

Aggregate EIRP (dBW/MHz)

34.3

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-151.0 dBW/4 kHz 20%
-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 40.0 GHz

60M0D7W - 480MD7W / 37500.0 - 42500.0

Transmit 50.0 GHz

60M0D7W - 480MD7W / 47200.0 - 50200.0
60M0D7W - 480MD7W / 50400.0 - 51400.0
60M0D7W - 480MD7W / 51400.0 - 52400.0

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

225.0 km / 139.8 mi
100.0 km / 62.1 mi

100.0 km / 62.1 mi
100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Elbert, CO
Frequency Coordination Report
28/40/50 GHz

Coordination Values		ELBERT, CO				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		39° 17' 33.1" N				
Longitude (NAD 83)		104° 30' 14.4" W				
Ground Elevation (AMSL)		1988.35 m / 6523.5 ft				
Antenna Centerline (AGL)		1.7 m / 5.6 ft				
Antenna Model		SpaceX 1.99 meter				
Antenna Mode		Receive 40.0 GHz		Transmit 50.0 GHz		
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%	
		Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-47.8 (dBW/4 kHz)				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.83	81.33	0.00	225.00	0.00	100.00
5	1.62	76.67	0.00	225.00	0.00	100.00
10	1.55	72.02	0.00	225.00	0.00	100.00
15	1.61	67.40	0.00	225.00	0.00	100.00
20	1.31	62.75	0.00	225.00	0.00	100.00
25	0.82	58.07	0.00	225.00	0.00	100.00
30	0.32	53.39	0.00	225.00	0.00	100.00
35	0.00	48.79	0.00	225.00	0.00	100.00
40	0.00	44.34	0.00	225.00	0.00	100.00
45	0.00	40.00	0.00	225.00	0.00	100.00
50	0.00	35.79	0.00	225.00	0.00	100.00
55	0.00	31.78	0.00	225.00	0.00	100.00
60	0.37	28.31	0.00	225.00	0.00	100.00
65	0.56	25.18	0.00	225.00	0.00	100.00
70	0.65	22.61	0.00	225.00	0.00	100.00
75	0.64	20.78	0.00	225.00	0.00	100.00
80	0.67	20.06	0.00	225.00	0.00	100.00
85	0.71	20.52	0.00	225.00	0.00	100.00
90	0.90	22.23	0.00	225.00	0.00	100.00
95	0.87	24.62	0.00	225.00	0.00	100.00
100	1.23	27.95	0.00	225.00	0.00	100.00
105	1.23	31.45	0.00	225.00	0.00	100.00
110	1.30	35.33	0.00	225.00	0.00	100.00
115	1.37	39.42	0.00	225.00	0.00	100.00
120	1.35	43.63	0.00	225.00	0.00	100.00
125	1.64	48.08	0.00	225.00	0.00	100.00
130	1.67	52.51	0.00	225.00	0.00	100.00
135	1.69	57.01	0.00	225.00	0.00	100.00
140	1.72	61.56	0.00	225.00	0.00	100.00
145	1.72	66.14	0.00	225.00	0.00	100.00
150	1.73	70.75	0.00	225.00	0.00	100.00
155	1.59	75.37	0.00	225.00	0.00	100.00
160	1.61	80.02	0.00	225.00	0.00	100.00
165	1.43	84.67	0.00	225.00	0.00	100.00
170	1.42	89.35	0.00	225.00	0.00	100.00
175	1.15	94.03	0.00	225.00	0.00	100.00
180	0.90	98.72	0.00	225.00	0.00	100.00
185	0.76	103.41	0.00	225.00	0.00	100.00

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Elbert, CO
Frequency Coordination Report
28/40/50 GHz

Coordination Values		ELBERT, CO				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		39° 17' 33.1" N				
Longitude (NAD 83)		104° 30' 14.4" W				
Ground Elevation (AMSL)		1988.35 m / 6523.5 ft				
Antenna Centerline (AGL)		1.7 m / 5.6 ft				
Antenna Model		SpaceX 1.99 meter				
Antenna Mode		Receive 40.0 GHz		Transmit 50.0 GHz		
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%	
		Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-47.8 (dBW/4 kHz)				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.82	108.07	0.00	225.00	0.00	100.00
195	0.72	112.74	0.00	225.00	0.00	100.00
200	0.48	117.41	0.00	225.00	0.00	100.00
205	0.58	121.99	0.00	225.00	0.00	100.00
210	0.70	126.51	0.00	225.00	0.00	100.00
215	0.85	130.95	0.00	225.00	0.00	100.00
220	1.05	135.27	0.00	225.00	0.00	100.00
225	1.24	139.47	0.00	225.00	0.00	100.00
230	1.34	143.54	0.00	225.00	0.00	100.00
235	1.43	147.39	0.00	225.00	0.00	100.00
240	1.72	150.78	0.00	225.00	0.00	100.00
245	1.92	153.76	0.00	225.00	0.00	100.00
250	2.06	156.15	0.00	225.00	0.00	100.00
255	2.20	157.71	0.00	225.00	0.00	100.00
260	2.15	158.46	0.00	225.00	0.00	100.00
265	2.18	158.04	0.00	225.00	0.00	100.00
270	2.23	156.56	0.00	225.00	0.00	100.00
275	2.33	154.20	0.00	225.00	0.00	100.00
280	2.42	151.20	0.00	225.00	0.00	100.00
285	2.53	147.73	0.00	225.00	0.00	100.00
290	2.70	143.91	0.00	225.00	0.00	100.00
295	2.94	139.83	0.00	225.00	0.00	100.00
300	3.21	135.60	0.00	225.00	0.00	100.00
305	3.41	131.28	0.00	225.00	0.00	100.00
310	3.35	126.97	0.00	225.00	0.00	100.00
315	3.09	122.63	0.00	225.00	0.00	100.00
320	3.14	118.14	0.00	225.00	0.00	100.00
325	3.02	113.64	0.00	225.00	0.00	100.00
330	2.69	109.12	0.00	225.00	0.00	100.00
335	2.53	104.54	0.00	225.00	0.00	100.00
340	2.32	99.93	0.00	225.00	0.00	100.00
345	2.32	95.29	0.00	225.00	0.00	100.00
350	2.33	90.65	0.00	225.00	0.00	100.00
355	2.19	86.00	0.00	225.00	0.00	100.00



5. Contact Information

For questions or information regarding the Ka, Q/V-band Frequency Coordination Report, please contact:

Contact person:	Gary Edwards
Title:	Senior Manager, Satellite Services
Company:	Comsearch
Address:	21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
Telephone:	703-726-5662
Email:	GEdwards@Comsearch.com
Web site:	www.comsearch.com

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
SpaceX Services, Inc
ELBERT, CO
Satellite Earth Station

Prepared By:
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166
April 28, 2026

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 03/26/2026.

Company

AT&T Mobility Spectrum LLC - CO
Aerux, LLP
Aspen Skiing Co LLC
BAM Broadband Opco LLC
BNSF Railway Company
Board of Water Works of Pueblo Colorado
Boulder, County of
Brainstorm Internet, Inc
Brighton, City of
CBS Broadcasting Inc
Castle Rock Water Utilities
Cellco Partnership - CO/ID/MT/WY/UT
Chevron USA Inc.
Cheyenne Board of Public Utilities
City of Boulder
City of Cheyenne
City of Colorado Springs
City of Longmont
Colorado Callcomm
Commnet Four Corners, LLC
County of Pueblo
Cripple Creek and Victor Gold Mining Co
Dish Wireless LLC
Eagle River Water & Sanitation District
El Paso County Sheriffs Office
ElektraFi LLC
Great Plains Communications, LLC
Gunnison County Electric Association Inc
High West Energy
Inventive Wireless of Nebraska, LLC
K-LOVE, Inc
Kellin Communications
LP Broadband, Inc.
Laramie County Combined Communications
Mobile Relay Associates Inc.
NE Colorado Cellular, Inc.
New Cingular Wireless PCS LLC -Colorado
Occidental Petroleum Corporation
Olympic Wireless, LLC
PathFinder LLC

Pitkin County
Pueblo, City of
Qwest Corporation
Qwest Broadband Services, Inc.
Resound Networks
San Isabel Telecom, Inc.
South Park Telephone
Southeast Colorado Power Association
State of Colorado
T-Mobile MW LLC
TellerWifi LLC
Union Telephone Company, Inc.
Vail Public Safety Communications
Vero Broadband, LLC
Visionary Communications, Inc.
Visionary Communications, LLC
WES Operating Holdco LLC
Weld, County of
Xbar7 Communications, LLC
Xcel Energy Services, Inc.
Zayo Network Services, LLC
Zero Error Networks, LLC

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 03/25/2026
Job Number: 260326COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ELBERT, CO
Venue Name: HOA-LESS
Latitude (NAD 83): 39° 17' 33.1" N
Longitude (NAD 83): 104° 30' 14.4" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 1988.35 m / 6523.5 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
50.0 dBi / 2.0 m
0.50° / 1.00°

Transmit - FCC32

SpaceX
1.99 meter
53.9 dBi / 2.0 m
0.30° / 0.60°

Max Available RF Power (dBW/4 kHz): -40.8
(dBW/MHz): -16.8

Maximum EIRP (dBW/4 kHz): 13.1
(dBW/MHz): 37.1

Aggregate EIRP (dBW/MHz): 37.1

Interference Objectives: Long Term: -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term: -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 18.0 GHz

60M0D7W - 480MD7W / 17300.0 - 17800.0
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18600.0 - 18800.0
60M0D7W - 480MD7W / 18800.0 - 19300.0
60M0D7W - 480MD7W / 19300.0 - 19700.0
60M0D7W - 480MD7W / 19700.0 - 20200.0
60M0D7W - 480MD7W / 20200.0 - 21200.0

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29100.0 - 29500.0
60M0D7W - 480MD7W / 29500.0 - 30000.0
60M0D7W - 480MD7W / 30000.0 - 31000.0

Max Great Circle Coordination Distance: 225.0 km / 139.8 mi 100.0 km / 62.1 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi 100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

ELBERT, CO

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 39° 17' 33.1" N
Longitude (NAD 83) 104° 30' 14.4" W
Ground Elevation (AMSL) 1988.35 m / 6523.5 ft
Antenna Centerline (AGL) 1.7 m / 5.6 ft
Antenna Model SpaceX 1.99 meter
Antenna Mode Receive 18.0 GHz Transmit 28.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%
Max Available RF Power -40.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.83	81.33	0.00	225.00	0.00	100.00
5	1.62	76.67	0.00	225.00	0.00	100.00
10	1.55	72.02	0.00	225.00	0.00	100.00
15	1.61	67.40	0.00	225.00	0.00	100.00
20	1.31	62.75	0.00	225.00	0.00	100.00
25	0.82	58.07	0.00	225.00	0.00	100.00
30	0.32	53.39	0.00	225.00	0.00	100.00
35	0.00	48.79	0.00	225.00	0.00	100.00
40	0.00	44.34	0.00	225.00	0.00	100.00
45	0.00	40.00	0.00	225.00	0.00	100.00
50	0.00	35.79	0.00	225.00	0.00	100.00
55	0.00	31.78	0.00	225.00	0.00	100.00
60	0.37	28.31	0.00	225.00	0.00	100.00
65	0.56	25.18	0.00	225.00	0.00	100.00
70	0.65	22.61	0.00	225.00	0.00	100.00
75	0.64	20.78	0.00	225.00	0.00	100.00
80	0.67	20.06	0.00	225.00	0.00	100.00
85	0.71	20.52	0.00	225.00	0.00	100.00
90	0.90	22.23	0.00	225.00	0.00	100.00
95	0.87	24.62	0.00	225.00	0.00	100.00
100	1.23	27.95	0.00	225.00	0.00	100.00
105	1.23	31.45	0.00	225.00	0.00	100.00
110	1.30	35.33	0.00	225.00	0.00	100.00
115	1.37	39.42	0.00	225.00	0.00	100.00
120	1.35	43.63	0.00	225.00	0.00	100.00
125	1.64	48.08	0.00	225.00	0.00	100.00
130	1.67	52.51	0.00	225.00	0.00	100.00
135	1.69	57.01	0.00	225.00	0.00	100.00
140	1.72	61.56	0.00	225.00	0.00	100.00
145	1.72	66.14	0.00	225.00	0.00	100.00
150	1.73	70.75	0.00	225.00	0.00	100.00
155	1.59	75.37	0.00	225.00	0.00	100.00
160	1.61	80.02	0.00	225.00	0.00	100.00
165	1.43	84.67	0.00	225.00	0.00	100.00
170	1.42	89.35	0.00	225.00	0.00	100.00
175	1.15	94.03	0.00	225.00	0.00	100.00
180	0.90	98.72	0.00	225.00	0.00	100.00
185	0.76	103.41	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

ELBERT, CO

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 39° 17' 33.1" N
Longitude (NAD 83) 104° 30' 14.4" W
Ground Elevation (AMSL) 1988.35 m / 6523.5 ft
Antenna Centerline (AGL) 1.7 m / 5.6 ft
Antenna Model SpaceX 1.99 meter
Antenna Mode Receive 18.0 GHz Transmit 28.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%
Max Available RF Power -40.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.82	108.07	0.00	225.00	0.00	100.00
195	0.72	112.74	0.00	225.00	0.00	100.00
200	0.48	117.41	0.00	225.00	0.00	100.00
205	0.58	121.99	0.00	225.00	0.00	100.00
210	0.70	126.51	0.00	225.00	0.00	100.00
215	0.85	130.95	0.00	225.00	0.00	100.00
220	1.05	135.27	0.00	225.00	0.00	100.00
225	1.24	139.47	0.00	225.00	0.00	100.00
230	1.34	143.54	0.00	225.00	0.00	100.00
235	1.43	147.39	0.00	225.00	0.00	100.00
240	1.72	150.78	0.00	225.00	0.00	100.00
245	1.92	153.76	0.00	225.00	0.00	100.00
250	2.06	156.15	0.00	225.00	0.00	100.00
255	2.20	157.71	0.00	225.00	0.00	100.00
260	2.15	158.46	0.00	225.00	0.00	100.00
265	2.18	158.04	0.00	225.00	0.00	100.00
270	2.23	156.56	0.00	225.00	0.00	100.00
275	2.33	154.20	0.00	225.00	0.00	100.00
280	2.42	151.20	0.00	225.00	0.00	100.00
285	2.53	147.73	0.00	225.00	0.00	100.00
290	2.70	143.91	0.00	225.00	0.00	100.00
295	2.94	139.83	0.00	225.00	0.00	100.00
300	3.21	135.60	0.00	225.00	0.00	100.00
305	3.41	131.28	0.00	225.00	0.00	100.00
310	3.35	126.97	0.00	225.00	0.00	100.00
315	3.09	122.63	0.00	225.00	0.00	100.00
320	3.14	118.14	0.00	225.00	0.00	100.00
325	3.02	113.64	0.00	225.00	0.00	100.00
330	2.69	109.12	0.00	225.00	0.00	100.00
335	2.53	104.54	0.00	225.00	0.00	100.00
340	2.32	99.93	0.00	225.00	0.00	100.00
345	2.32	95.29	0.00	225.00	0.00	100.00
350	2.33	90.65	0.00	225.00	0.00	100.00
355	2.19	86.00	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 03/25/2026
Job Number: 260326COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ELBERT, CO
Venue Name: HOA-LESS
Latitude (NAD 83): 39° 17' 33.1" N
Longitude (NAD 83): 104° 30' 14.4" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 1988.35 m / 6523.5 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Antenna Information		Receive - FCC32		Transmit - FCC32	
Manufacturer		SpaceX		SpaceX	
Model		1.99 meter		1.99 meter	
Gain / Diameter		55.9 dBi / 2.0 m		58.1 dBi / 2.0 m	
3-dB / 15-dB Beamwidth		0.25° / 0.50°		0.20° / 0.40°	
Max Available RF Power		(dBW/4 kHz)		-47.8	
		(dBW/MHz)		-23.8	
Maximum EIRP		(dBW/4 kHz)		10.3	
		(dBW/MHz)		34.3	
Aggregate EIRP		(dBW/MHz)		34.3	
Interference Objectives:		Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
		Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%

Frequency Information

Frequency Information	Receive 40.0 GHz	Transmit 50.0 GHz
Emission / Frequency Range (MHz)	60M0D7W - 480MD7W / 37500.0 - 42500.0	60M0D7W - 480MD7W / 47200.0 - 50200.0 60M0D7W - 480MD7W / 50400.0 - 51400.0 60M0D7W - 480MD7W / 51400.0 - 52400.0
Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values		ELBERT, CO		
Licensee Name		SpaceX Services, Inc		
Latitude (NAD 83)		39° 17' 33.1" N		
Longitude (NAD 83)		104° 30' 14.4" W		
Ground Elevation (AMSL)		1988.35 m / 6523.5 ft		
Antenna Centerline (AGL)		1.7 m / 5.6 ft		
Antenna Model		SpaceX 1.99 meter		
Antenna Mode		Receive 40.0 GHz		Transmit 50.0 GHz
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power			-47.8 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	1.83	81.33	0.00	225.00	0.00	100.00
5	1.62	76.67	0.00	225.00	0.00	100.00
10	1.55	72.02	0.00	225.00	0.00	100.00
15	1.61	67.40	0.00	225.00	0.00	100.00
20	1.31	62.75	0.00	225.00	0.00	100.00
25	0.82	58.07	0.00	225.00	0.00	100.00
30	0.32	53.39	0.00	225.00	0.00	100.00
35	0.00	48.79	0.00	225.00	0.00	100.00
40	0.00	44.34	0.00	225.00	0.00	100.00
45	0.00	40.00	0.00	225.00	0.00	100.00
50	0.00	35.79	0.00	225.00	0.00	100.00
55	0.00	31.78	0.00	225.00	0.00	100.00
60	0.37	28.31	0.00	225.00	0.00	100.00
65	0.56	25.18	0.00	225.00	0.00	100.00
70	0.65	22.61	0.00	225.00	0.00	100.00
75	0.64	20.78	0.00	225.00	0.00	100.00
80	0.67	20.06	0.00	225.00	0.00	100.00
85	0.71	20.52	0.00	225.00	0.00	100.00
90	0.90	22.23	0.00	225.00	0.00	100.00
95	0.87	24.62	0.00	225.00	0.00	100.00
100	1.23	27.95	0.00	225.00	0.00	100.00
105	1.23	31.45	0.00	225.00	0.00	100.00
110	1.30	35.33	0.00	225.00	0.00	100.00
115	1.37	39.42	0.00	225.00	0.00	100.00
120	1.35	43.63	0.00	225.00	0.00	100.00
125	1.64	48.08	0.00	225.00	0.00	100.00
130	1.67	52.51	0.00	225.00	0.00	100.00
135	1.69	57.01	0.00	225.00	0.00	100.00
140	1.72	61.56	0.00	225.00	0.00	100.00
145	1.72	66.14	0.00	225.00	0.00	100.00
150	1.73	70.75	0.00	225.00	0.00	100.00
155	1.59	75.37	0.00	225.00	0.00	100.00
160	1.61	80.02	0.00	225.00	0.00	100.00
165	1.43	84.67	0.00	225.00	0.00	100.00
170	1.42	89.35	0.00	225.00	0.00	100.00
175	1.15	94.03	0.00	225.00	0.00	100.00
180	0.90	98.72	0.00	225.00	0.00	100.00
185	0.76	103.41	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

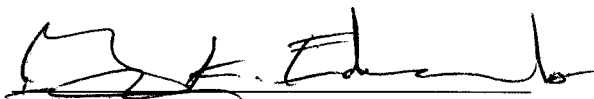
ELBERT, CO

Licensee Name	SpaceX Services, Inc		
Latitude (NAD 83)	39° 17' 33.1" N		
Longitude (NAD 83)	104° 30' 14.4" W		
Ground Elevation (AMSL)	1988.35 m / 6523.5 ft		
Antenna Centerline (AGL)	1.7 m / 5.6 ft		
Antenna Model	SpaceX 1.99 meter		
Antenna Mode	Receive 40.0 GHz		Transmit 50.0 GHz
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	-47.8 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.82	108.07	0.00	225.00	0.00	100.00
195	0.72	112.74	0.00	225.00	0.00	100.00
200	0.48	117.41	0.00	225.00	0.00	100.00
205	0.58	121.99	0.00	225.00	0.00	100.00
210	0.70	126.51	0.00	225.00	0.00	100.00
215	0.85	130.95	0.00	225.00	0.00	100.00
220	1.05	135.27	0.00	225.00	0.00	100.00
225	1.24	139.47	0.00	225.00	0.00	100.00
230	1.34	143.54	0.00	225.00	0.00	100.00
235	1.43	147.39	0.00	225.00	0.00	100.00
240	1.72	150.78	0.00	225.00	0.00	100.00
245	1.92	153.76	0.00	225.00	0.00	100.00
250	2.06	156.15	0.00	225.00	0.00	100.00
255	2.20	157.71	0.00	225.00	0.00	100.00
260	2.15	158.46	0.00	225.00	0.00	100.00
265	2.18	158.04	0.00	225.00	0.00	100.00
270	2.23	156.56	0.00	225.00	0.00	100.00
275	2.33	154.20	0.00	225.00	0.00	100.00
280	2.42	151.20	0.00	225.00	0.00	100.00
285	2.53	147.73	0.00	225.00	0.00	100.00
290	2.70	143.91	0.00	225.00	0.00	100.00
295	2.94	139.83	0.00	225.00	0.00	100.00
300	3.21	135.60	0.00	225.00	0.00	100.00
305	3.41	131.28	0.00	225.00	0.00	100.00
310	3.35	126.97	0.00	225.00	0.00	100.00
315	3.09	122.63	0.00	225.00	0.00	100.00
320	3.14	118.14	0.00	225.00	0.00	100.00
325	3.02	113.64	0.00	225.00	0.00	100.00
330	2.69	109.12	0.00	225.00	0.00	100.00
335	2.53	104.54	0.00	225.00	0.00	100.00
340	2.32	99.93	0.00	225.00	0.00	100.00
345	2.32	95.29	0.00	225.00	0.00	100.00
350	2.33	90.65	0.00	225.00	0.00	100.00
355	2.19	86.00	0.00	225.00	0.00	100.00

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166

DATED: April 28, 2026



E-band Frequency Coordination Report
The “HOA-less” Gateway (Elbert, CO)
March 23, 2026



Summary

SpaceX performed a coordination notice under Section 25.203(c), Section 25.251, and Appendix 7 of the ITU's Radio Regulations. Prior-notification letters with earth station details were sent to potentially affected terrestrial licensees; a copy of these details are available in this report. The earth station coordination was finalized on April 07, 2026. No objections were received from any terrestrial licensees.

Methodology

SpaceX has completed an interference analysis based on accepted international and Commission methodologies demonstrating that this satellite earth station will not cause harmful interference to existing terrestrial facilities in the band. Specifically, for each known receiver within the great circle coordination distance surrounding the proposed earth station, SpaceX calculated the expected interference/noise ratio (I/N) to the receiver, assuming the SpaceX antenna properties listed on the following page, SpaceX site layout and design, free-space propagation without terrain or clutter, and actual characteristics of receiver(s) obtained from the 70/80/90 GHz link-registration database. Even under these conservative assumptions, SpaceX's analysis confirms that this earth station will not cause interference exceeding 1.0 dB of degradation to the static threshold of existing 70/80 GHz links within the great circle coordination distance.¹

Operators contacted

Prior-coordination letters were sent to the following operators:

1. Aerux
2. Aerux Broadband
3. Aerux LLP
4. Aviat Networks
5. BAIconnect
6. BAM Broadband Opco LLC
7. BNSF Railway Co
8. BOB, LLC
9. BOB, LLC dba Business Only Broadband
10. Bel Air Internet, LLC
11. Boingo Wireless, Inc.
12. Cellco Partnership
13. Ceragon Networks, Inc.
14. Chevron USA Inc.

¹ If there were any cases in which the interference threshold was exceeded in the conservative free-space analysis for any relevant receiver, SpaceX conducted an additional analysis with more realistic assumptions of terrain and clutter, under which the interference threshold was not exceeded for any relevant receiver. This further ensures that there will be no above-threshold interference to existing receivers.

15. City of Aurora
16. City of Pueblo CO
17. Davis Wright Tremaine LLP
18. Denver, City and County Of
19. Digis LLC
20. E.I. Computer Systems Inc
21. Elevations Ethernet LLC
22. Live Wire Networks, Inc
23. Micronet Communications, Inc.
24. NE Colorado Cellular, Inc.
25. Netunwired LLC
26. Parker Water and Sanitation District
27. REMEC Broadband Wireless Networks LLC DBA Bridgewave Communications
28. Siklu, Inc
29. Skywire LLC
30. SpaceX
31. T-MOBILE LICENSE LLC
32. TellerWifi LLC
33. University Corp for Atmospheric Research
34. Verizon
35. Vero Broadband, LLC
36. Verso Networks Inc
37. WES Operating Holdco LLC
38. Webpass Inc
39. Webpass, Inc
40. Widmo Holdings LLC

Earth Station Data

This section presents the data that was circulated to all operators that met the criteria for notification for this earth station.

Site Information:

- Transmitting station name: The "HOA-less" Gateway
- Transmitting station coordinates: 39.29253, -104.504
- Ground Elevation (AMSL): 1994.0 m
- Antenna Count: 40
- Aggregate EIRP toward the horizon: -9 dBW/MHz

Frequency Information:

- Transmit: 81-86 GHz
- Receive: 71-76 GHz
- Max Great Circle Coordination Distance: 127 km
- Rain Scatter Coordination Distance Contour: 6 km

Link Information:

- Satellite Type: Low Earth Orbit
- Mode: TR – Transmit-Receive
- Modulation: Digital
- Minimum Elevation Angle: 15.0°
- Azimuth Range: 0.0° to 360.0°
- Antenna Centerline (AGL): 0.0 m

Antenna Information:

- Manufacturer: SpaceX
- Model/Diameter: 1.99m
- Gain: 60.9 dBi at 83.5 GHz
- Max Available RF Power: -20.8 dBW/MHz
- Horizon Gain: 0 dBi
- Maximum EIRP: 40.1 dBW/MHz (main beam)
- Permissible RF Interference Power Level²: I/N ≤ -6 dB
- Antenna Mask: ITU-R S.580

² See 47 CFR § 101.105(a)(5)(i). This I/N value would cause a maximum of 1.0 dB of degradation to the static threshold of the protected receiver.

Horizon Angle by Azimuth:

All values are in degrees

Azimuth	Horizon Angle
0.0	2.17
5.0	1.84
10.0	1.56
15.0	0.91
20.0	0.63
25.0	0.35
30.0	0.08
35.0	0.01
40.0	0.07
45.0	0.07
50.0	0.14
55.0	0.16
60.0	0.31
65.0	0.50
70.0	0.64
75.0	0.60
80.0	0.64
85.0	0.64
90.0	0.89
95.0	0.90
100.0	1.13
105.0	1.21
110.0	1.26
115.0	1.36
120.0	1.27
125.0	1.58
130.0	1.60
135.0	1.66
140.0	1.65
145.0	1.65
150.0	1.59
155.0	1.57
160.0	1.56
165.0	1.38
170.0	1.42
175.0	1.21
180.0	0.94
185.0	0.76
190.0	0.82
195.0	0.70



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200.0	0.67
205.0	0.76
210.0	0.76
215.0	0.86
220.0	1.11
225.0	1.36
230.0	1.26
235.0	1.50
240.0	1.71
245.0	1.86
250.0	2.03
255.0	2.29
260.0	2.52
265.0	2.28
270.0	2.36
275.0	2.56
280.0	2.78
285.0	2.96
290.0	3.09
295.0	3.15
300.0	3.14
305.0	3.08
310.0	2.81
315.0	2.91
320.0	2.80
325.0	2.68
330.0	2.62
335.0	2.57
340.0	2.64
345.0	2.68
350.0	2.70
355.0	2.48