

Ka-Band Earth Station – New Knoxville, OH

Frequency Coordination Report

28 GHz



Prepared on Behalf of
ViaSat, Inc.

August 19, 2025

Table of Contents

1.	Summary of Results	- 2 -
1.	28 GHz Common Carrier Coordination	- 2 -
2.	Earth Station Coordination Data	- 3 -
3.	Contact Information	- 4 -

1. Summary of Results

On behalf of ViaSat, Inc., Comsearch issued a coordination notice under Section 25.203(c) and Section 25.136(a)(4) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka-Band earth station in New Knoxville-OH, which will transmit at 28 GHz¹. Prior notification emails 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 August 19, 2025.

No objections were received from any of the incumbent 28 GHz licensees.

1. 28 GHz Common Carrier Coordination

In accordance with FCC Rules and Regulations, the Ka-Band earth station in New Knoxville, OH was prior-coordinated by Comsearch. A notification email, datasheet, and Google Earth file showing the area around the site outside which the -77.6 dBm/m² per MHz threshold value is not exceeded for this earth station were sent to the following 28 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
AT&T	Statewide

No objections were received from the common carrier incumbent.

¹ The proposed earth station will operate in the 27.5 – 29.1 GHz & 29.5 – 30.0 GHz portion of the Ka-Band.

2. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-Band earth station in New Knoxville, OH. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

Date:	08/01/2025		
Job Number:	250801COMSNR62		
Administrative Information			
Status	ENGINEER PROPOSAL		
Call Sign			
Licensee Code	VIASAT		
Licensee Name	ViaSat, Inc		
Site Information			
Venue Name	NEW KNOXVILLE, OH		
Latitude (NAD 83)	40° 29' 29.25" N		
Longitude (NAD 83)	84° 19' 12.61" W		
Climate Zone	A		
Rain Zone	2		
Ground Elevation (AMSL)	274.76 m / 901.4 ft		
Link Information			
Satellite Type	Geostationary		
Mode	TO - Transmit-Only		
Modulation	Digital		
Satellite Arc	78° W to 91° West Longitude		
Azimuth Range	170.3° to 190.2°		
Corresponding Elevation Angles	42.7° / 42.7°		
Antenna Centerline (AGL)	1.2 m / 3.9 ft		
Antenna Information			
Manufacturer	Transmit - VES000		
Model	VIASAT INC.		
Gain / Diameter	13138XX		
3-dB / 15-dB Beamwidth	52.0 dBi / 1.8 m		
	0.40° / 0.80°		
Max Available RF Power	(dBW/4 kHz)	-34.0	
	(dBW/MHz)	-10.0	
Maximum EIRP	(dBW/4 kHz)	18.0	
	(dBW/MHz)	42.0	
Interference Objectives:	Long Term	-141.0 dBW/4 kHz	20%
	Short Term	-118.0 dBW/4 kHz	0.0025%
Frequency Information			
Emission / Frequency Range (MHz)	Transmit 28.0 GHz		
	464MG7D / 27500.0 - 29500.0		
Coordination Distance	4 km / 2.48 mi		

3. Contact Information

For questions or information regarding the 28 GHz Frequency Coordination Report, please contact:

Contact person:	Naveen Raghavan
Title:	Engineering Program Manager
Company:	Comsearch
Address:	21515 Ridgetop Circle, Sterling, VA 20166
Telephone:	703-726-5648
Email:	nraghavan@Comsearch.com
Website:	www.comsearch.com