

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WI2XQD

(Call Sign)

0193-EX-CM-2020

(File Number)

NAME ViaSat, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(h) of the Commission's Rules

Station Locations

- (1) Duluth (GWINNETT), GA - NL 33-57-48; WL 84-06-51
- (2) Duluth (GWINNETT), GA - NL 33-57-47; WL 84-06-51

Frequency Information

Duluth (GWINNETT), GA - NL 33-57-48; WL 84-06-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1668.4-1747 MHz	FX	NON	242.66 mW (ERP)	1.0E-6 %
2200 MHz	FX	NON	242.66 mW (ERP)	1.0E-6 %
2250 MHz	FX	NON	242.66 mW (ERP)	1.0E-6 %
3400-3649 MHz	FX	NON	242.66 mW (ERP)	1.0E-6 %

This authorization effective November 12, 2020 and
will expire 3:00 A.M. EST March 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Duluth (GWINNETT), GA - NL 33-57-48; WL 84-06-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3701-4200 MHz	FX	N0N	242.66 mW (ERP)	1.0E-6 %
7600-8900 MHz	FX	N0N	242.66 mW (ERP)	1.0E-6 %
11700-12700 MHz	FX	N0N	242.66 mW (ERP)	1.0E-6 %
17500-18000 MHz	FX	N0N	242.66 mW (ERP)	1.0E-6 %

Duluth (GWINNETT), GA - NL 33-57-47; WL 84-06-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33-36 GHz	FX	N0N	242.66 mW (ERP)	1.0E-6 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) The applicant must get consents from the Advanced Wireless Service licensees prior to accessing to 1668.4-1747 MHz and 2200 MHz.
- (4) The applicant must coordinate with the local Society of Broadcast Engineer frequency coordinator and the affected Fixed Microwave Service licensees prior to operation in 17500-18000 MHz bands.
- (5) The applicant must coordinate with the affected Fixed Microwave Service licensees prior to operation in 3701-4200 MHz and 11700-12700 MHz bands.
- (6) The horizon line of sight is 50 ft. height antenna.

Special Conditions:

- (7) At least 5 business days prior to operating, ViaSat, Inc., must coordinate and obtain a mutual agreement with licensees of earth stations operating in the 3.7-4.2 GHz and 11.7-12.2 GHz bands within 3 kilometers of the locations from which experimental operations will occur.
- (8) Prior to operating, ViaSat, Inc., must notify licensees of earth stations operating in the 11.7-12.2 GHz band within 15 kilometers of the locations from which experimental operations will occur. ViaSat, Inc., must also provide such notification to the National Spectrum Managers Association frequency coordinators by email. (see http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave). The notice should include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna pattern, antenna height(s), antenna orientation, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth stations in the 3.7-4.2 GHz and 11.7-12.2 GHz bands.
- (9) Operations in the 12.2-12.7 GHz was obtained based on the written consent from DirecTV/AT&T, EchoStar and DISH Network with the following conditions:
 - i) The tests are performed in accordance with the transmission parameters specified on this application, specifically, a) the low transmit ERP power level, b) the performance of the 1.2m transmit antenna size and its on-axis and off-axis performance, and c) the specified fixed pointing of the antennas.
 - ii) It is understood that the duration of the experimental license will be for a period of 24 months and no automatic renewal will be granted.
 - iii) In the event of interference from ViaSat's testing to satellite TV subscribers, Viasat will immediately cease all transmission tests being performed under this license upon notification by any of the three satellite companies.
 - iv) Viasat commits to working expeditiously to find a good faith resolution of any such interference issue. ViaSat, Inc. may commence testing once a resolution is found and shall be agreed to by the affected satellite provider(s) and ViaSat.
- (10) The applicant must coordinate its operations in 3550-3700 MHz band with one or more authorized Spectrum Access System (SAS) administrators to obtain channel assignments and avoid causing harmful interference to authorized users of the band, including General Authorized Access (GAA) users.
- (11) Prior to commencing any operations, the applicant must obtain consent from 1670-1675 MHz Band licensee and the lessee.