

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WK9XWI

(Call Sign)

XT      FX MO

(Class of Station)

1781-EX-ST-2016

(File Number)

NAME UB Nanosatellite Laboratory

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

**Purpose Of Operation:**

The operation is to test the communications link for a nanosatellite.

**Station Locations**

- (1) Buffalo, NY - NL 43-00-07; WL 78-47-13
- (2) MOBILE: Top of hill Chestnut Ridge Park, Orchard Park, NY, within 8 km, centered around NL 42-42-18; WL 78-44-40

**Frequency Information**

Buffalo, NY - NL 43-00-07; WL 78-47-13

| Frequency      | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|---------------------|------------------|---------------------------|
| 436.15-437 MHz | FX            | 12K0F1D             | 10 W (ERP)       | 0.001 %                   |

This authorization effective February 23, 2017 and  
will expire 3:00 A.M. EST June 01, 2017

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Top of hill Chestnut Ridge Park, Orchard Park, NY, within 8 km, centered around NL 42-42-18; WL 78-44-40

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 137.875 MHz | MO            | 12K0F1D             | 10 W (ERP)       | 0.001 %                   |

## 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) Prior to operation, licensee must coordinate with stations authorized to operate in these frequency bands that are located within a within a 25 mile radius of the transmitter.
- (3) This experimental license was obtained based on the written consent of ORBCOMM Inc., for the operations in the frequency 137.875 MHz and 436.15-437 MHz
- (4) Licensee should be aware that there is a licensed station operating on these same frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (5) Operations must be on a Non Interference Basis(NIB)/Non Protected Basis (NPB)/Not Prejudice to future decisions(NPFD).
- (6) Operation in the 137.875 MHz and 436.15-437 MHz is for a few hours with an average duty cycle under 20%, but potentially with periods of 100% activity lasting up to 10 minutes at a time, and only at the specific geographic locations identified set forth by the applicant.