

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

EXPERIMENTAL

(Nature of Service)

XR      FX MO

(Class of Station)

WJ2XWG

(Call Sign)

0049-EX-CR-2020

(File Number)

NAME Astro Digital US, 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(d) of the Commission's Rules

Station Locations

- (1) MOBILE: LEO SAT orbit 585 km altitude, 98.0 degree incl
- (2) Santa Clara (SANTA CLARA), CA - NL 37-22-48; WL 121-57-40
- (3) Littleton (JEFFERSON), CO - NL 39-34-24; WL 105-08-01

Frequency Information

MOBILE: LEO SAT orbit 585 km altitude, 98.0 degree incl

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 400.5 MHz | MO            | 40K0F1D             | 2 W (ERP)        | 2.5E-6 %                  |

Santa Clara (SANTA CLARA), CA - NL 37-22-48; WL 121-57-40

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 402.9 MHz | FX            | 40K0F1D             | 3715 W (ERP)     | 2.5E-6 %                  |

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

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



Frequency Information

Littleton (JEFFERSON), CO - NL 39-34-24; WL 105-08-01

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 402.9 MHz | FX            | 40K0F1D             | 3715 W (ERP)     | 2.5E-6 %                  |

Special Conditions:

- (1) The licensee shall provide the Commission with all information required for the Advance Publication, Coordination and Notification of frequency assignments pursuant to the International Radio Regulations. This includes the preparation of draft materials, to be provided to the Commission prior to submission to the International Telecommunication Union. The authorized operations require notification of frequency assignments pursuant to Article 11 of the ITU Radio Regulations. Licensee shall provide the FCC, not later than 30 days after a frequency assignment is brought into use, the documents required for notification (including SpaceCap Notification MDB file) of such frequency assignments. The licensee shall also prepare materials for informing the ITU that a frequency assignments has been brought into use, or that its use has been suspended or permanently discontinued.
- (2) Upon receipt of a conjunction warning from the JSpOC or other source, the licensee must review the warning and take all possible steps to assess and, if necessary, to mitigate collision risk, including, but not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; modifying spacecraft attitude and/or operations.
- (3) Following launch of the satellite, the licensee must notify the FCC through electronic submission to the license file, of the status of the satellite (transmissions commenced, etc.), not later than 7 days after commencement or expected commencement of transmissions, and of termination of transmissions, not later than three months after such termination.
- (4) Point of Communications: Momentus X1 satellite.