

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

EXPERIMENTAL

(Nature of Service)

WH2XJQ

(Call Sign)

XT MO

(Class of Station)

0048-EX-CM-2016

(File Number)

NAME Astronics AeroSat Corporation

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(i) of the Commission's Rules

Station Locations

(1) MOBILE: CONUS and adjacent international waters

Frequency Information

MOBILE: CONUS and adjacent international waters

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14500 MHz | MO            | 160KG7D<br>5M12G7D  | 16.946 kW (ERP)  |                           |

Special Conditions:

- (1) Astronics AeroSat may not operate the system fixed or from any ground vehicle located with 125 KM of NASA's White Sands Complex Earth station at coordinates 322954N 1063631W
- (2) Astronics AeroSat may not operate the system from any aeronautical vehicle operating at any altitude above ground within radio line-of-sight of NASA's White Sands Complex Earth station at coordinates 322954N 1063631W
- (3) Notification of dates, times and locations of any system operation shall be provided to the NASA Goddard Space Flight Center Spectrum Manager, prior to operations via email notification to [vincent.s.galbraith@nasa.gov](mailto:vincent.s.galbraith@nasa.gov).

This authorization effective December 14, 2016 and  
will expire 3:00 A.M. EST October 01, 2017

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