

## **TAGSAT-1 Parameter List as requested by FCC**

LTDN (required for sun synchronous orbit): 0900

### For Transmitter Antenna (Space station):

- Polarization Left Hand Circular
- Orientation Narrow Band
- Dimension:
  - Gain (dbi) 5 dBi
  - Beamwidth (degree) 100 degrees

### - Receiver Antenna (Earth station):

- Location:
  - lat/long: lat 40 deg N 25 min 53 sec, long 085 deg W 30 min 30 sec
  - city, state. Upland, Indiana
- Polarization Left Hand Circular
- Orientation Narrow Band
- Dimension:
  - Gain (dbi) 30
  - Beamwidth (degree) 5.3

Azimuth (degree clockwise from True North) Not Applicable; satellite is non geostationary

Elevation (in meter above MSL) Elevation of site is 276 meter

Height (in meter above MSL) Height of antenna is 2 meter above site

### Orbital characteristics:

- Inclination angle (in degree) 97.5
- Apogee (in km) 525
- Perigee (in km) 525
- Period (in hour) 1.58
- Number of satellite in the system 1
- Number of transmitting satellite 1
- Number of receiving satellite 1