

## UVA Libertas File 0240-EX-CN-2018 Additional Technical Data

### 7. Transmitter Antenna

- Location:

Apogee: **408 km**

Perigee: **399 km**

- Polarization: **RH Circular**

- Orientation: **-Z face**

- Dimension:

Gain: **-0.2** (dbi)

Beamwidth: **130** (degree)

Azimuth (degree clockwise from True North): **0-360°**

### 8. Receiver Antenna

- Location: **38° 1' 57" N, 78° 30' 40" W - Charlottesville, VA**

- Polarization: **RH Circular**

- Orientation: **-Z face**

- Dimension:

Gain: **15.5** (dbi)

Beamwidth: **30** (degree)

Azimuth (degree clockwise from True North): 0-360°

Elevation (in meter above MSL): **181 m** (Charlottesville, VA elevation)

Height (in meter above MSL): **196 m** (Antenna height above MSL)

### 9. Orbital characteristics

- Inclination angle: **51.6** (in degree)

- Apogee: **408** (in km)

- Perigee: **401** (in km)

- Period: **1.55** (in hour)

- Number of satellite in the system: **1**

- Number of transmitting satellites: **1**

- Number of receiving satellites: **1**