

PExT Mobile Area of Operation and Antenna Exhibit (1 of 2)

- Mobile Area of Operation
 - Radio will be a hosted payload on a York Space Systems' bus in LEO
 - Satellite will be operating globally in Sun Synchronous Orbit (SSO)
 - 97.50° circular orbit, MLTAN 22:30 ± 30 min
- Single 60 cm Ka-band antenna for transmit and receive
- Directional Antenna Half Power Beam Width
 - Forward (Rx) link: 1.8°
 - Return (Tx) link: 1.2°
- 60 CM Directional Antenna Orientation:
 - Horizontal: 0 - 360°
 - Vertical: 0 – 180°
 - Hemispherical pointing direction, always oriented sideways or up in reference to Earth
- Antenna Height
 - Radio will be installed on a satellite in LEO, altitude of 515 ± 15 km
 - Altitude of the antenna will be such that it will be out of aircraft operating range
 - Exact ground elevation cannot be determined due to global operation
 - Exact distance to nearest aircraft landing area cannot be determined due to global operation