

SUPPLEMENTAL FILING INFORMATION (X-BAND SAR)
FCC FILE NO. 0782-EX-CN-2026

Provide the following information with respect to the satellite(s): a) Longitude b) Satellite coverage (Narrow Beam(NB) or Earth Coverage(EC)) c) Receive antenna gain d) Beamwidth of the receive antenna at the half power points e) Antenna polarization

Note: The receive antenna is a SAR ESA panel as the horn at the GS is used for on-orbit calibration.

- a) Longitude:** NGSO satellite – N/A
- b) Satellite coverage (Narrow Beam(NB) or Earth Coverage(EC)):** NGSO satellite – N/A
- c) Receive antenna gain:** 44.6 dBi
- d) Beamwidth of the receive antenna at the half power points:** HPBW of $\sim 0.65^\circ$ (azimuth) $\times 1.95^\circ$ (elevation) (based on 0.0316m wavelength / 0.928 m in height or / 3×0.928 m in width) at 9.5 GHz.
- e) Antenna polarization:** Linear

Provide the following information with respect the transceiver ground-station antenna(s): a) Transmit antenna gain (dbi) b) Beamwidth of transmit antenna at the half-power points c) Transmit antenna azimuth d) Elevation of transmit antenna MSL (in meters) e) Elevation of transmit antenna AGL (in meters) f) Antenna polarization

- a) Transmit gain (dBi):** 20.0 dBi @ 9.200 GHz
- b) HPBW of Tx antenna:** 15° , common with horn antenna type
- c) Transmit antenna Azimuth:** 0 - 360 degrees
- d) Elevation of transmit antenna MSL:** 1874.0 m
- e) Elevation of transmit antenna AGL:** 7.0 m
- f) Polarization:** RHCP