



Point of Communications

Horizons-1 Satellite
On FCC Permitted List
ITU Designation: N-SAT-127W
GEO at 127 West
24 C-band and 24 Ku-band transponders covering CONUS
Operator: Intelsat
FCC File Number: SAT-PDR-20030210-00015, SAT-PPL-20040112-0004

Fixed Terminal Area of Operations:

Santa Barbara CA Operations Area

- 34.432638,-119.866644

The terminal consists of:

- GD1385, 3.8m Ku band antenna (25.209 compliant)
- 25 Watt BUC
- LNB
- Gtx=53.0 dBi , EIRP= 67 dBW
- Grx=51.2 dBi , G/T=30.2 dB/k

Mobile Terminal Area of Operations:

Santa Barbara CA Operations Area

- 34.432638,-119.866644
- Radius of operation = 100 miles (161 km)

Aberdeen Proving Grounds MD Operations Area

- 39.484783,-76.160964
- Radius of operation = 100 miles (161 km)

Camp Roberts CA Operations Area

- 35.791379,-120.742711
- Radius of operation = 100 miles (161 km)

The terminal consists of:

- Four Raysat 3000/20 Terminals
 - 20 Watt BUC built into terminal
 - LNB built into terminal
 - Gtx=26 dBi, EIRP= 39 dBW max
 - Grx=29.5 dBi, G/T=9 dB/k
- Toyon multiple aperture combiner
 - Phase combines receive signals
 - Switches to one transmit antenna at a time