

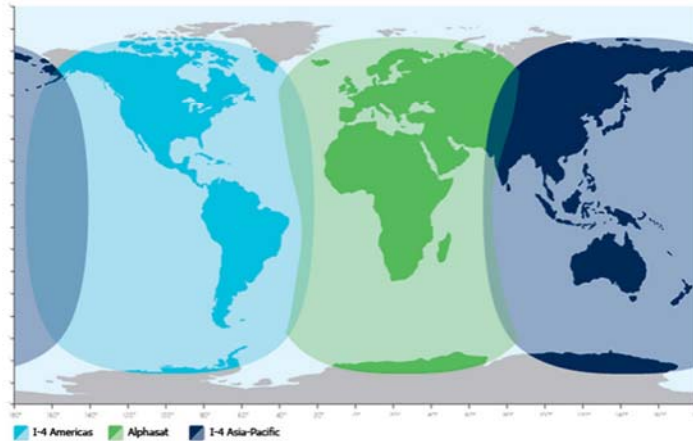
Alphasat and Inmarsat-4 satellites

Following the full deployment of the Inmarsat-4 (I-4) satellite constellation in 2009, a further three satellite regions were created over the Earth's major landmasses.

- I-4 F1 Asia-Pacific, at 143.5 degrees East
- I-4 F2 EMEA (Europe, Middle East and Africa), at 63.9 degrees East
- I-4 F3 Americas, at 98.4 degrees West

Alphasat was launched in 2013 to supplement the I-4 network, at 24.9 degrees East.

Alphasat and I-4 coverage map



Please provide the following information with respect to the satellite(s):

1. Satellite Longitude: **98.4 degrees West for Continental United States and 143.5 degrees East for Hawaii. See above.**
2. Satellite coverage (Narrow Beam(NB) or Earth Coverage(EC)): **Footprint includes Spot beams and Regional beams.**
3. Receive antenna gain: **One of the INMARSAT International Bureau applications shows a receive peak antenna gain of 34 dBi but unable to confirm this value.**
4. Beamwidth of the receive antenna at the half power points: **Unable to find this information and unable to obtain from INMARSAT.**

Please provide the following information with respect the transceiver ground-station antenna(s):

1. Transmit antenna gain (dbi): **The C10 antenna gain is 13 dBi and the C11 antenna gain is 10 dBi.**
2. Beamwidth of transmit antenna at the half-power points: **The 3 dB horizontal beamwidth is 40 degrees.**