



INTELSAT IX SERIES SATELLITES

Introducing Intelsat 907 @ 332.5°E

High Power. High Performance.

Intelsat 907 began servicing our customers in 2Q03 by providing enhanced C-band coverage for the Americas, Africa and Europe and high-power Ku-band spot beam coverage for Europe and Africa. Deployed at 332.5°E, the IS-907 offers increased power and greater coverage. With high-powered Ku-band to Western Europe and West Africa – more than twice the current Ku-band power previously available from this location – the IS-907's split uplink and high power performance are ideal for supporting corporate VSATs, broadcast content distribution and broadband applications including high speed Internet access, multicasting and streaming. This new satellite supports 1.0m Ku-band antennas.

Advanced Features:

- Selectable split uplink with independent gain control in Channel 12 of Global beam
- Capability to steer Ku-band beams based on user demand
- Flexible transponder activation in Ku-band for 14 out of 16 channels
- Capability to switch polarization sense in Ku-band beams by ground command
- Ku-band transponders are equipped with ALC for e.i.r.p. control

IS-907 Highlights

- **Downlink e.i.r.p. (beam edge to beam peak)**
 - Global:** 31.0 up to 35.9 dBW
 - Hemi:** 37.0 up to 41.3 dBW
 - Zone:** 37.0 up to 47.6 dBW
 - Ku-Band:** Up to 54.0 dBW
- **G/T (beam edge to beam peak)**
 - Global:** -11.2 up to -5.6 dB/K
 - Hemi:** -6.6 up to -1.8 dB/K
 - Zone:** -5.5 up to +6.3 dB/K
 - Spot 1:** Up to +9.0 dB/K
 - Spot 2:** Up to +9.0 dB/K
- **More power:** The IS-907 is designed to provide an increase of up to 9.6 dB for downlink e.i.r.p. and up to 2.9 dB for G/T over the IS-VI satellites.
- **Greater capacity:** With a total of up to 72 C-Band 36 MHz equivalent unit transponders, the IS-907 will provide 19% more capacity over the previous satellite at 332.5°E.
- **Enhanced coverage:** IS-907 offers broad C-band coverage. Footprints include full coverage of South and Central America, broad coverage over Europe, Africa and the Middle East, and connectivity to North America.

Intelsat 907 @ 332.5°E

Satellite Facts

Prime Contractor

SS/Loral

Launched

February 2003

Launch Vehicle

Ariane

Total Transponders

C-Band: Up to 76 (in equiv. 36 MHz units)

Ku-Band: Up to 23 (in equiv. 36 MHz units)

Polarization

C-Band: Circular

Ku-Band: Linear

Uplink Frequency

C-Band: 5850 to 6425 MHz

Ku-Band: 14.00 to 14.50 GHz

Downlink Frequency

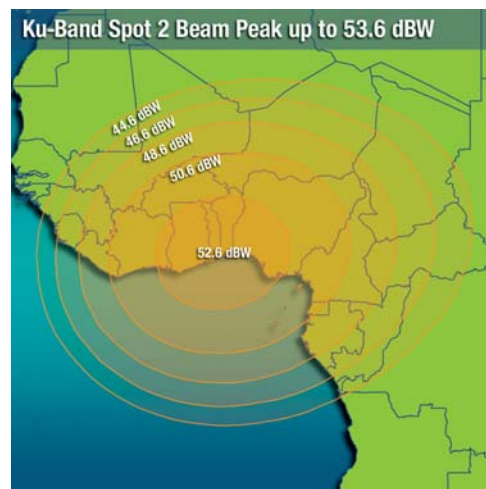
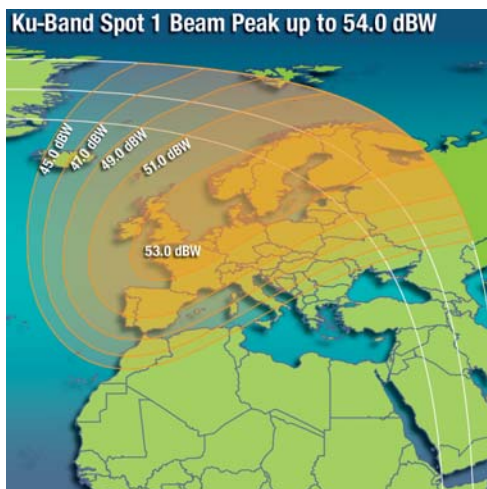
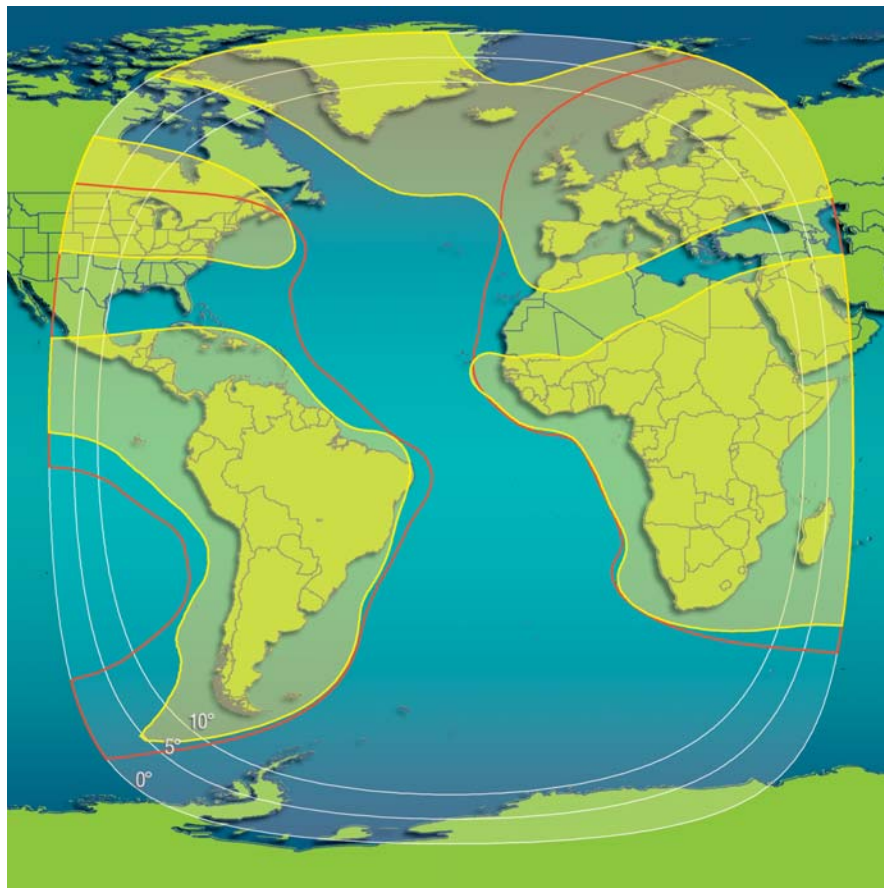
C-Band: 3625 to 4200 MHz

Ku-Band: 10.95 to 11.20 GHz and
11.45 to 11.70 GHz

SFD Range (beam edge)

C-Band: -89.0 to -67.0 dBW/m²

Ku-Band: -87.0 to -69.0 dBW/m²



Beam peak values and coverage diagrams are preliminary.



inspiring connections

3/01/4093

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General Inquiries

Tel: +1 202-944-8535

E-mail: sales@intelsat.com

www.intelsat.com