

# Introducing Intelsat 905 @ 335.5°E

## Strategic location with broad access to the PSN community

The Intelsat 905 at 335.5°E provides connectivity to one of the largest Public Switched Network (PSN) communities in the Atlantic Ocean Region with enhanced capacity and coverage. The IS-905 delivers bandwidth solutions and connectivity to nearly one hundred Carriers and Internet Service Providers. Its location offers exceptional coverage over multiple regions in the Atlantic Region, facilitating the development of new markets. The IS-905 is a key location servicing Carriers with the Intelsat TDMA service.

In addition, the IS-905 services the Video Broadcast community by maintaining dedicated capacity in the Global C-band beam for Intelsat's Occasional Use service. With an additional 288 MHz (8 x 36 MHz) of Zone beam transponders, IS-905 offers Internet Service Providers and Carriers high speed connections to the Internet backbone and additional capacity for intra-regional bandwidth requirements.

### Advanced Features:

- Selectable split uplink with independent gain control in Channel 12 of Global beam
- Capability for SS/TDMA services in Channels 1-2 and 3-4
- Capability to split the uplink on each of the two Channel 9 of Hemi beam
- Switchable satellite configuration between four-zone and five-zone beam coverage
- Flexibility in five-zone mode to activate transponders on a channel-by-channel basis between SW Zone and SE Zone
- Capability to steer Ku-band beams based on user demand
- Flexible transponder activation in Ku-band for 14 out of 16 channels

### IS-905 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-905 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 transponders (in four zone beam configuration), the IS-905 will provide 13% more capacity over our previous satellite at 335.5°E.
- **Enhanced coverage:** IS-905 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.

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## Satellite Facts

### Prime Contractor

SS/Loral

### Launched

June 2002

### Launch Vehicle

Ariane

### Total Transponders

**C-Band:** Up to 72 (in equiv. 36 MHz units)

**Ku-Band:** Up to 22 (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

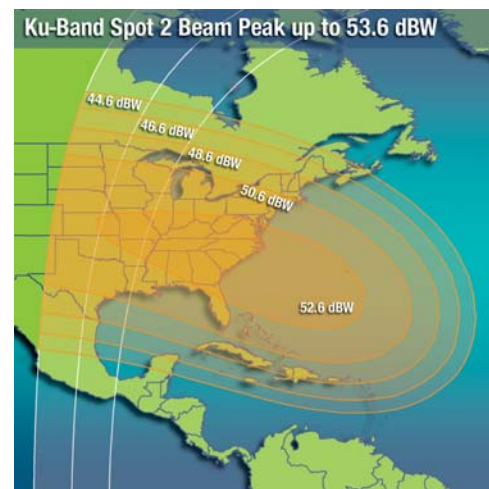
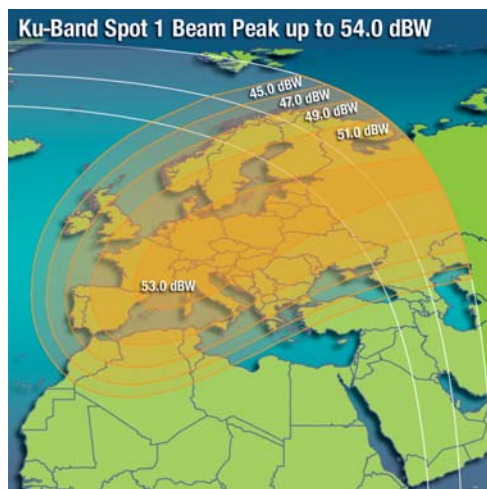
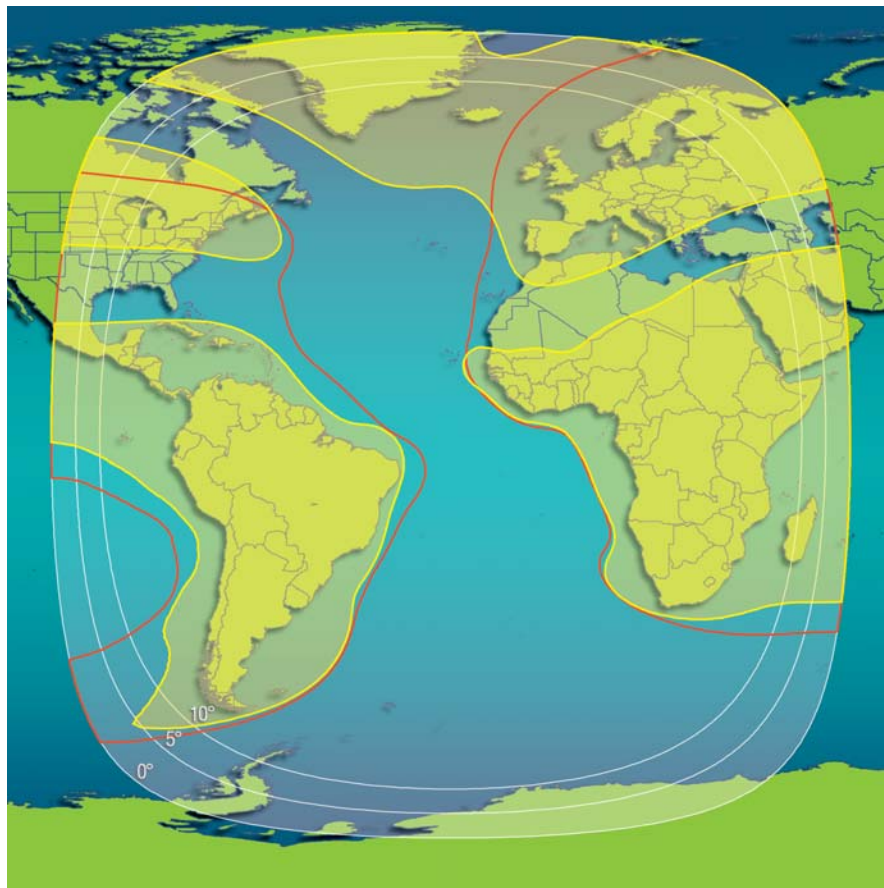
**Ku-Band:** 10.95 to 11.20 GHz

11.45 to 11.70 GHz

### SFD Range (beam edge)

**C-Band:** -89.0 to -67.0 dBW/m<sup>2</sup>

**Ku-Band:** -87.0 to -69.0 dBW/m<sup>2</sup>



inspiring connections

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