



INTELSAT IX SERIES SATELLITES

Introducing Intelsat 901 @ 342°E

Enhanced power and coverage for the Atlantic Ocean Region

The Intelsat 901 was the first of 9 new Intelsat satellites launched in June 2001 at 342°E. The IS-901 provides Ku-band spot beam coverage for Europe as well as C-band coverage for the Atlantic Ocean Region. With advanced features like selectable split uplink for SNG, the IS-901 is tailored for today's communications demands, such as DTH and Internet.

Advanced Features:

- Selectable split uplink in Global Channel 12 for Satellite News Gathering (SNG)
- Capability for SS/TDMA services in Channels 1-2 and 3-4
- Selectable split uplink in Hemi Channel 9 for DAMA
- Flexible transponder activation for 12 out of 16 channels in Ku-band
- Equipped with an overdrive control feature for Ku-band transponders

IS-901 Highlights

- **Downlink e.i.r.p. (beam edge to beam peak)**
 - Global:** 31.0 up to 35.9 dBW
 - Hemi:** 36.0 up to 41.0 dBW
 - Zone:** 36.0 up to 41.0 dBW
 - Ku-Band:** Up to 53 dBW
- **G/T (beam edge to beam peak)**
 - Global:** -11.2 up to -5.6 dB/K
 - Hemi:** -8.0 up to -1.6 dB/K
 - Zone:** -7.4 up to +5.9 dB/K
 - Spot 1:** Up to +9 dB/K
 - Spot 2:** Up to +9 dB/K
- **More Power** – The IS-901 is designed to provide an increase of up to 5 dB for downlink e.i.r.p. and up to 1.8 dB for G/T over the IS-VII satellites.
- **Greater Capacity** – With a total of up to 72 C-band 36 MHz equivalent unit transponders, the IS-901 will provide 71% more capacity over our previous satellite at 342°E.
- **Enhanced Coverage** – IS-901 provides significantly expanded zone coverage. The Ku-band spot beams also include more area within each e.i.r.p. level.

Intelsat 901 @ 342°E

Satellite Facts

Prime Contractor

SS/Loral

Launched

June 2001

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

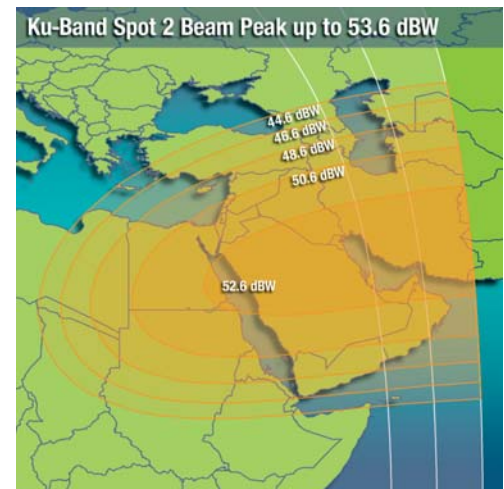
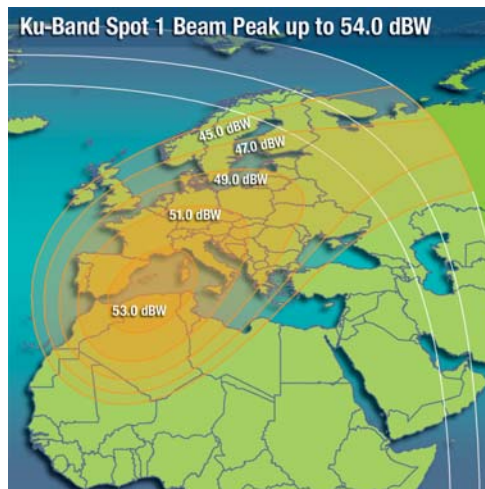
C-Band: 3625 to 4200 MHz

Ku-Band: 10.95 to 11.20 GHz 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



inspiring connections

3/01/3575

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