



INTELSAT IX SERIES SATELLITES

Introducing Intelsat 906 @ 64°E

Expanding the network of major carriers in Europe, Asia, Africa and Australia

The IS-906, the latest state-of-the-art satellite from Intelsat, is designed to provide high power telephony, Internet, and broadcasting solutions to Europe, Asia, Australia and Africa. Deployed at 64°E, the IS-906 offers space segment/terrestrial solutions to customers on its 72 C-band and 22 Ku-band transponders (measured in 36 MHz equivalent units). The IS-906 satellite has the capability to uplink and downlink data streams from different beams and operating frequency bands. Customers can uplink in Ku-band in Europe where interference and coordination are reduced. The satellite also provides additional capacity and enhanced coverage to a well-established Public Switched Network community including VSNL India, British Telecom, Cable & Wireless, KDDI, Reach and TeleDenmark. This is especially beneficial to those in Africa and Central and Southeast Asia where there will be increased coverage for domestic or regional network requirements.

Advanced Features:

- Selectable split uplink with independent gain control in Channel 12 of Global beam
- Capability to split the uplink on each of the two Channel 9 of Hemi 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 by ground command
- Ku-band transponders are equipped with ALC for e.i.r.p. control

IS-906 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 44.1 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:** -8.0 up to -1.6 dB/K
 - Zone:** -7.4 up to +5.9 dB/K
 - Spot 1:** Up to +9.0 dB/K
 - Spot 2:** Up to +9.0 dB/K
- **More power:** The IS-906 is designed to provide an increase of up to 2.2 dB for downlink e.i.r.p. and up to 2.2 dB for G/T over the IS-VIII satellites.
- **Greater capacity:** With a total of up to 72 C-band 36 MHz transponders, the IS-906 provides 13% more capacity over our previous satellite at 64°E.
- **Enhanced coverage:** IS-906 offers broad C-band coverage. Footprints include full coverage of Asia, broad coverage over Europe, Sub-Saharan Africa and Australia. IS-906 also offers Ku-band spot beam coverage for Europe and the Indian subcontinent.

Intelsat 906 @ 64°E

Satellite Facts

Prime Contractor

SS/Loral

Launched

September 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

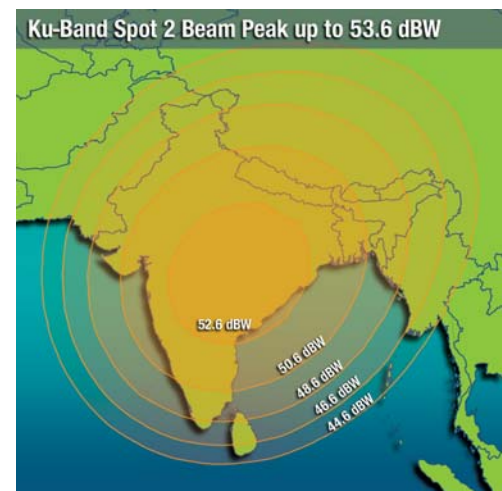
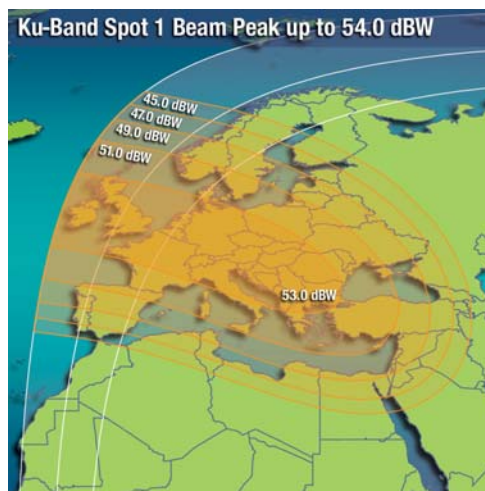
C-Band: 3625 to 4200 MHz

Ku-Band: 10.95 to 11.20 GHz 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

3/01/4093

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