



INTELSAT IX SERIES SATELLITES

Intelsat 902 @ 62°E

Enhanced power and coverage for the Indian Ocean Region

The Intelsat 902 provides enhanced power, coverage area and capacity. Additionally, the IS-902 provides high-power Ku-band spot beam coverage for Europe and the Middle East and more C-band capacity to the Indian Ocean Region. With advanced features like selectable split uplink for SNG, the IS-902 is the ideal satellite to meet today's telecommunications needs, 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-902 Highlights

- **Downlink e.i.r.p. (beam edge to beam peak)**
 - Global:** 31.0 up to 35.9 dBW
 - Hemi:** 37.0 up to 45.5 dBW
 - Zone:** 35.1 up to 47.8 dBW
 - Ku-Band:** Up to 53 dBW
- **G/T (beam edge to beam peak)**
 - Global:** -11.2 up to -5.6 dB/K
 - Hemi:** -7.4 up to +2.0 dB/K
 - Zone:** -5.0 up to +5.4 dB/K
 - Spot 1:** Up to +9.0 dB/K
 - Spot 2:** Up to +9.0 dB/K
- **More Power** – The IS-902 is designed to provide an increase of up to 9 dB for downlink e.i.r.p. and up to 4.8 dB for G/T over the IS-VI satellites.
- **Greater Capacity** – An increase of 8 C-band transponders in equivalent 36 MHz units over our previous satellite serving the Indian Ocean Region.
- **Enhanced Coverage** – IS-902 provides significantly expanded zone coverage at 62°E. The Ku-band spot beams also include more area within each e.i.r.p. level.

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Satellite Facts

Prime Contractor

SS/Loral

Launch Window

August 2001

Launch Vehicle

Ariane

Total Transponders

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

Ku-Band: 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 11.70 GHz

SFD Range (beam edge)

C-Band: -89.0 to -67.0 dBW/m²

Ku-Band: -87.0 to -69.0 dBW/m²

