

ASIASAT 9

122°E

AsiaSat's most powerful satellite for region-wide coverage and connectivity



UNIQUE FEATURES

- Replacement satellite for AsiaSat 4 with enhanced coverage and capacity
- Highest C-band TWTA power available in Asia-Pacific offering extended high-power coverage
- 3 new dedicated Ku-band beams: Myanmar, Indonesia and Mongolia, in addition to enhanced East Asia and Australasia beams
- Cross-strap Ku-band beam switching capability for flexible coverage
- Ka-band payload offering high-power regional coverage
- Doubling spectral density (bit/Hz) to support higher mod/cod with up to 3dB improvement in downlink EIRP power
- Innovative filter design on spacecraft to achieve higher C-band bandwidth, delivering 23% increase in throughput compared to AsiaSat 4
- Star tracker equipped to provide 20% increase in satellite pointing accuracy
- Hall Effect Thrusters fitted to enhance stability and reliability of satellite operation and provide better performance at edge of beam coverage

THE SPACECRAFT

| | |
|---------------------------------|---------------------|
| Designed/Built by | Space Systems Loral |
| Model | SSL 1300 |
| Nominal Orbital Location | 122°E |

LAUNCH

29 September 2017 by ILS Proton M/Breeze M rocket from Baikonur Cosmodrome, Kazakhstan

COMMUNICATIONS PAYLOAD

C-band

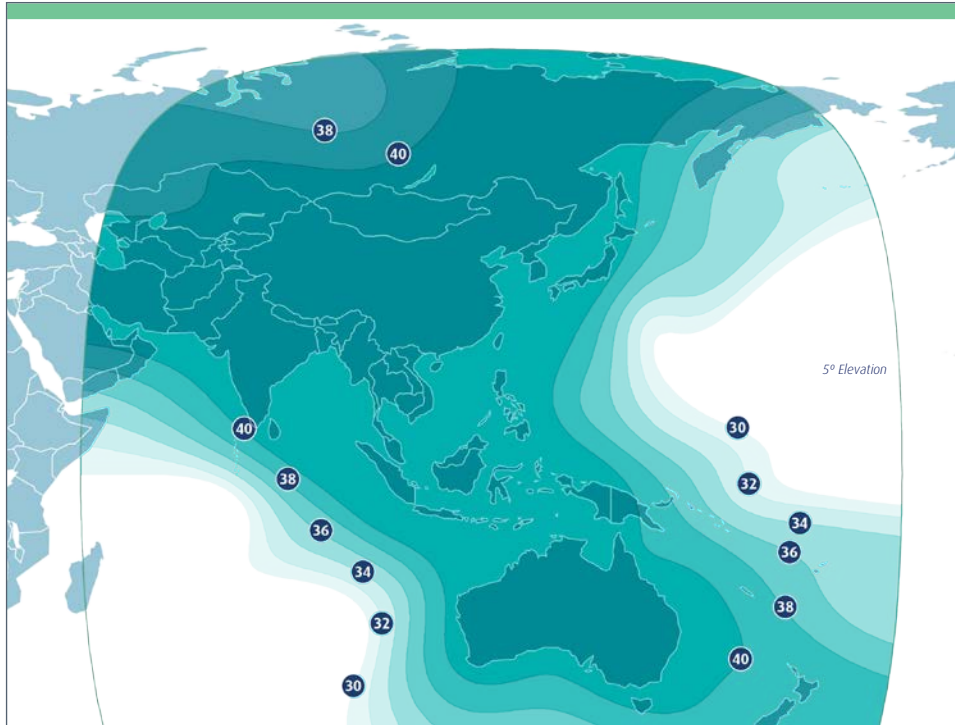
| | |
|--------------------------------|---|
| No. of Transponders | 28 |
| Transponder | 36 MHz |
| Bandwidth UL/DL | Horizontal and Vertical |
| Polarisation Coverage | Asia, Middle East, Central Asia and Australasia |
| TWTA Size | 110 watts |
| TWTA Redundancy | 32 for 28 |
| Satellite Receiving G/T | -0.5+ dB/K |

Ku-band

| | |
|------------------------------|---|
| No. of Transponders | 32 |
| Transponder | 54 MHz |
| Bandwidth UL/DL | Horizontal and Vertical |
| Polarisation Coverage | 5 Beams: East Asia, Myanmar, Indonesia, Australasia, Mongolia |
| LNA Redundancy | Australasia: 2 for 1 East Asia/Indonesia: 5 for 3 Mongolia/Myanmar: 4 for 2 |
| TWTA Size | 200 watts |

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C-BAND GLOBAL BEAM EIRP (dBW)

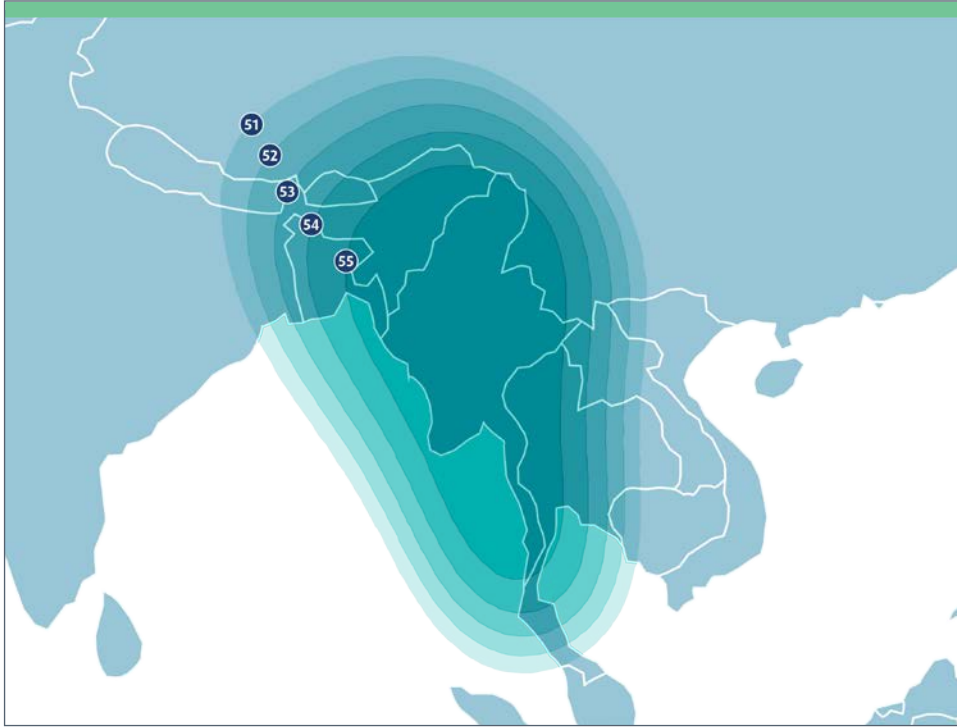


KU-BAND EAST ASIA BEAM EIRP (dBW)



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KU-BAND MYANMAR BEAM EIRP (dBW)

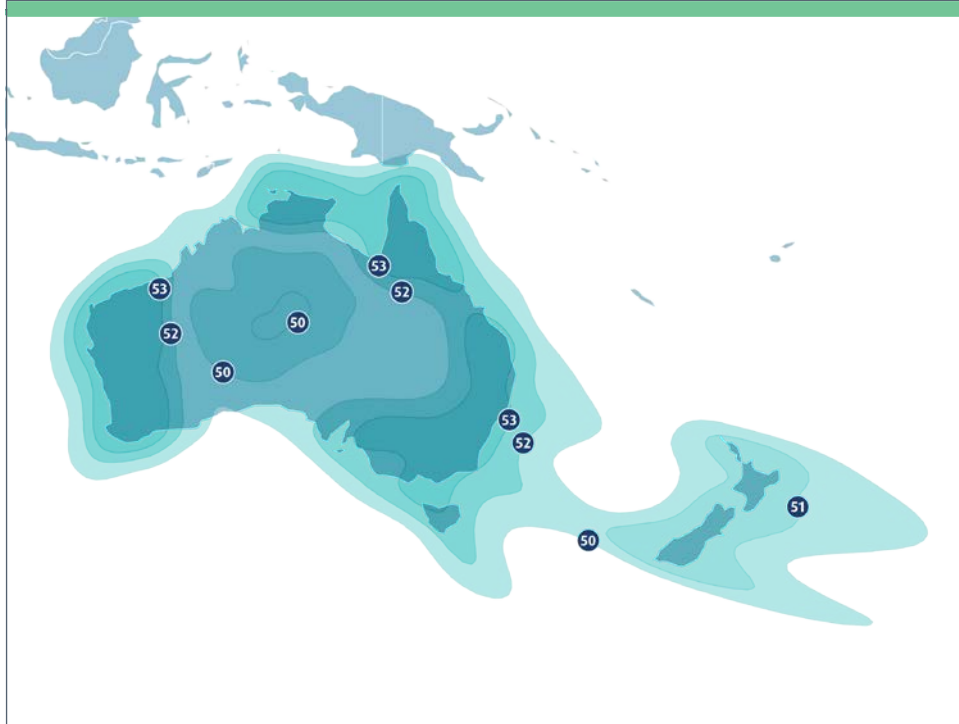


KU-BAND INDONESIA BEAM EIRP (dBW)



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KU-BAND AUSTRALASIA BEAM EIRP (dBW)



KU-BAND MONGOLIA BEAM EIRP (dBW)

