

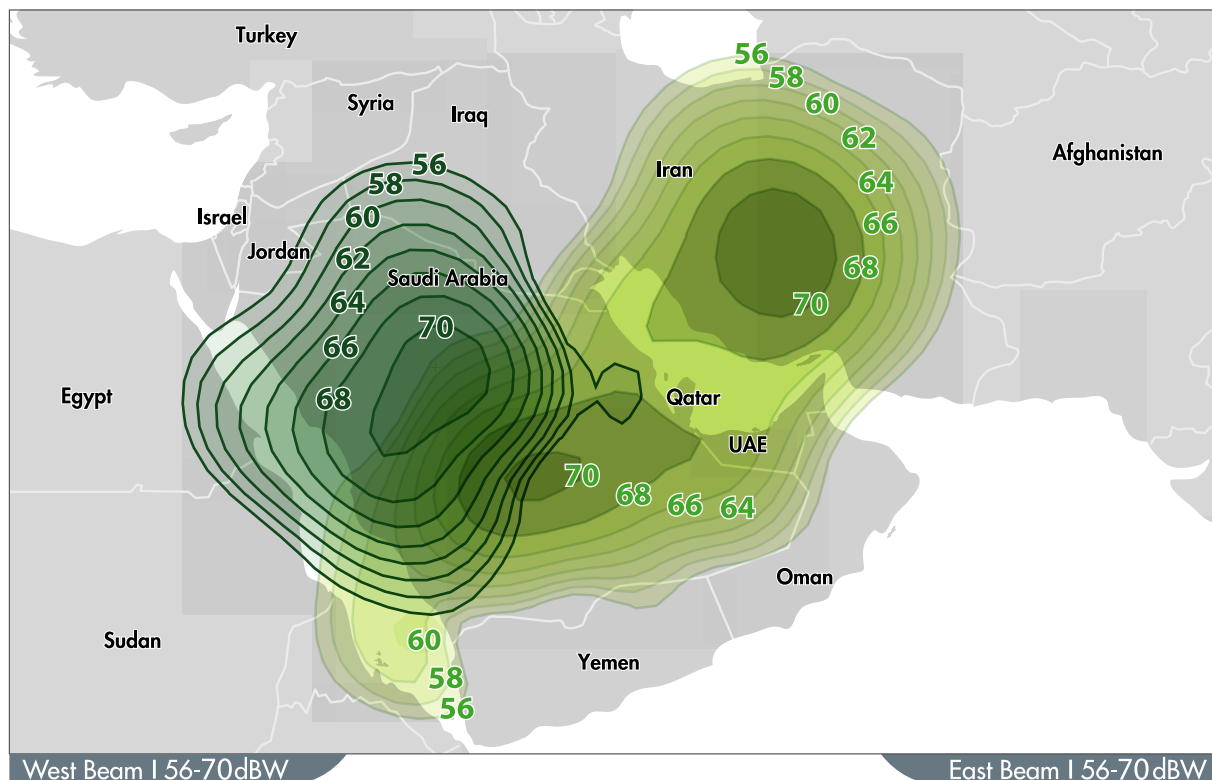


ABS-4/Mobisat-1 61°E

ABS-4/Mobisat-1 KEY HIGHLIGHTS

- ABS-4/Mobisat-1 is a geostationary mobile multimedia Space Systems/Loral satellite
- Equipped with S-band and Ku-band coverage over the MENA countries
- Provides direct broadcast of digital audio/video content to mobile users via two high-powered cross polarized Ku/S band beams: West Beam and East Beam
- Capable of distributing digital data content to terrestrial repeater networks within the beam via two Ku-band beams
- Suitable for government/military applications

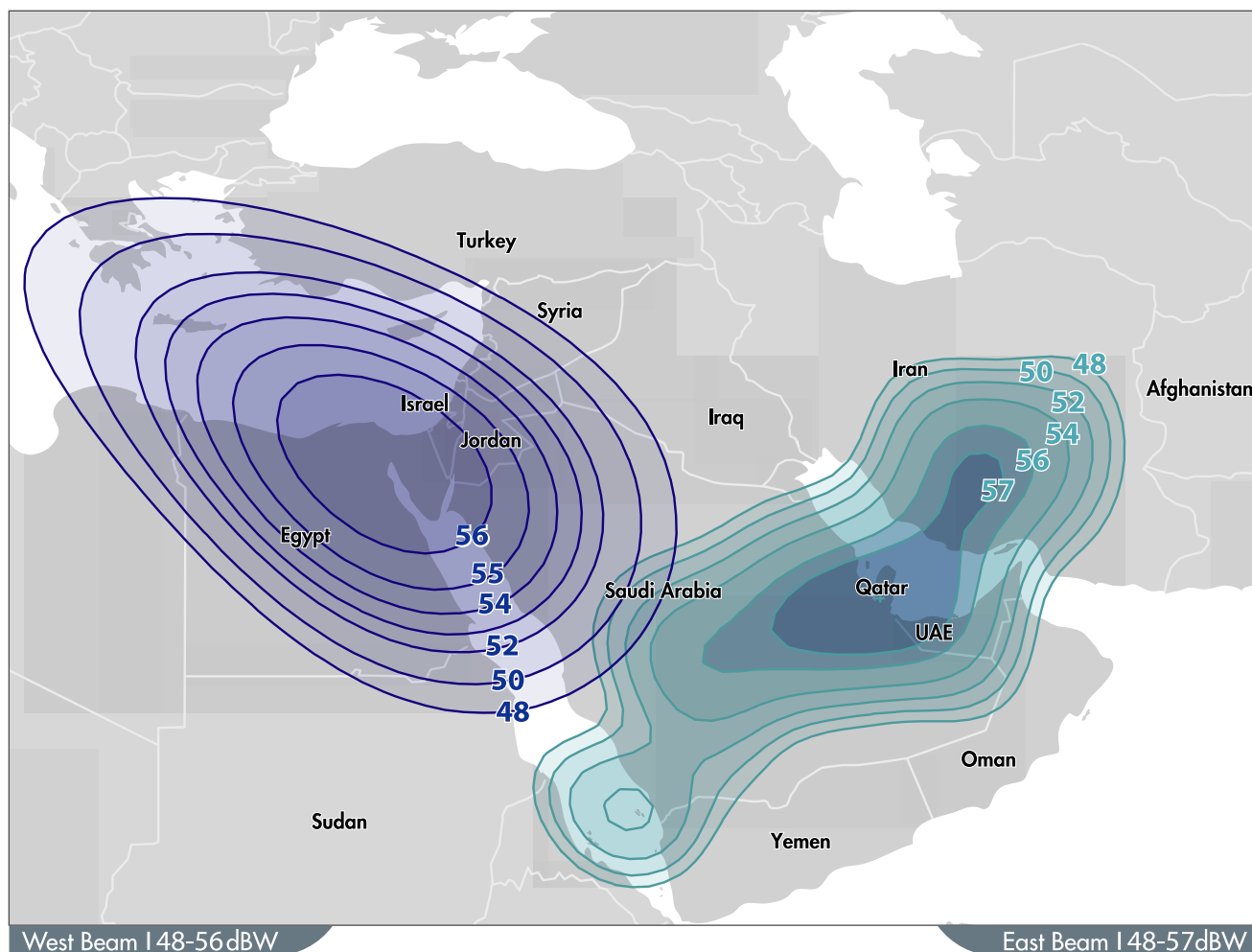
Ku/S BAND BEAMS



Ku/S-band Transponders: 2 x 25MHz Polarization: Linear / Circular
Uplink/Downlink Frequency: 13.858 – 13.883 / 2.630 – 2.655



Ku/Ku BAND BEAMS



West Beam | 48-56dBW

East Beam | 48-57dBW

Ku/Ku-band Transponders: 2 x 25MHz Polarization: Linear / Linear
Uplink/Downlink Frequency: 13.824 – 13.849 / 12.214 – 12.239

PARAMETER	Ku/S BAND	Ku/Ku BAND
Number of Transponders	2	2
Transponder Bandwidth (MHz)	25	25
Uplink/Downlink Frequencies (GHz)	13.858–13.883/2.630–2.655	13.824–13.849/12.214–12.239
Uplink/Downlink Signal Polarization	Linear/Circular	Linear/Linear
Cross-Polarization Separation (dB)	30	30
EIRP (dBW)	70 (East Beam) 70 (West Beam)	56 (East Beam) 57 (West Beam)
TWTA Size (Watts)	135 (East Beam) 135 (West Beam)	150 (East Beam) 130 (West Beam)
TWTA Redundancy	24:16 (Power combined) (East Beam) 12:8 (Power combined) (West Beam)	2:1 (East Beam) 2:1 (West Beam)
Uplink SFD (dBW/m ²)	-105 to -85 (at 14.5 dB/K) (East Beam) -105 to -85 (at 14.0 dB/K) (West Beam)	-105 to -85 (at 14.5 dB/K) (East Beam) -105 to -85 (at 14.0 dB/K) (West Beam)
G/T (dB/K)	14.5 (East Beam) 14 (West Beam)	14.5 (East Beam) 14 (West Beam)