

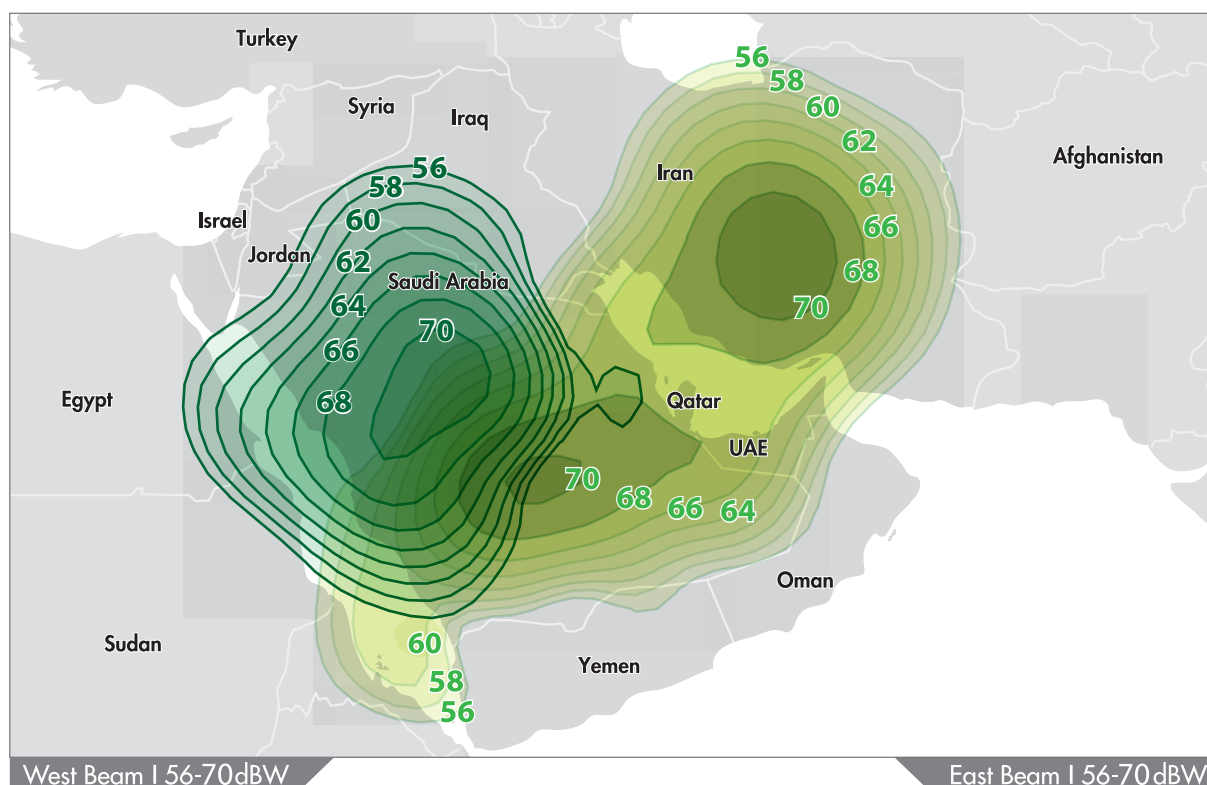
ABS-4/Mobisat-1 61°E



ABS-4 / Mobisat-1 KEY HIGHLIGHTS

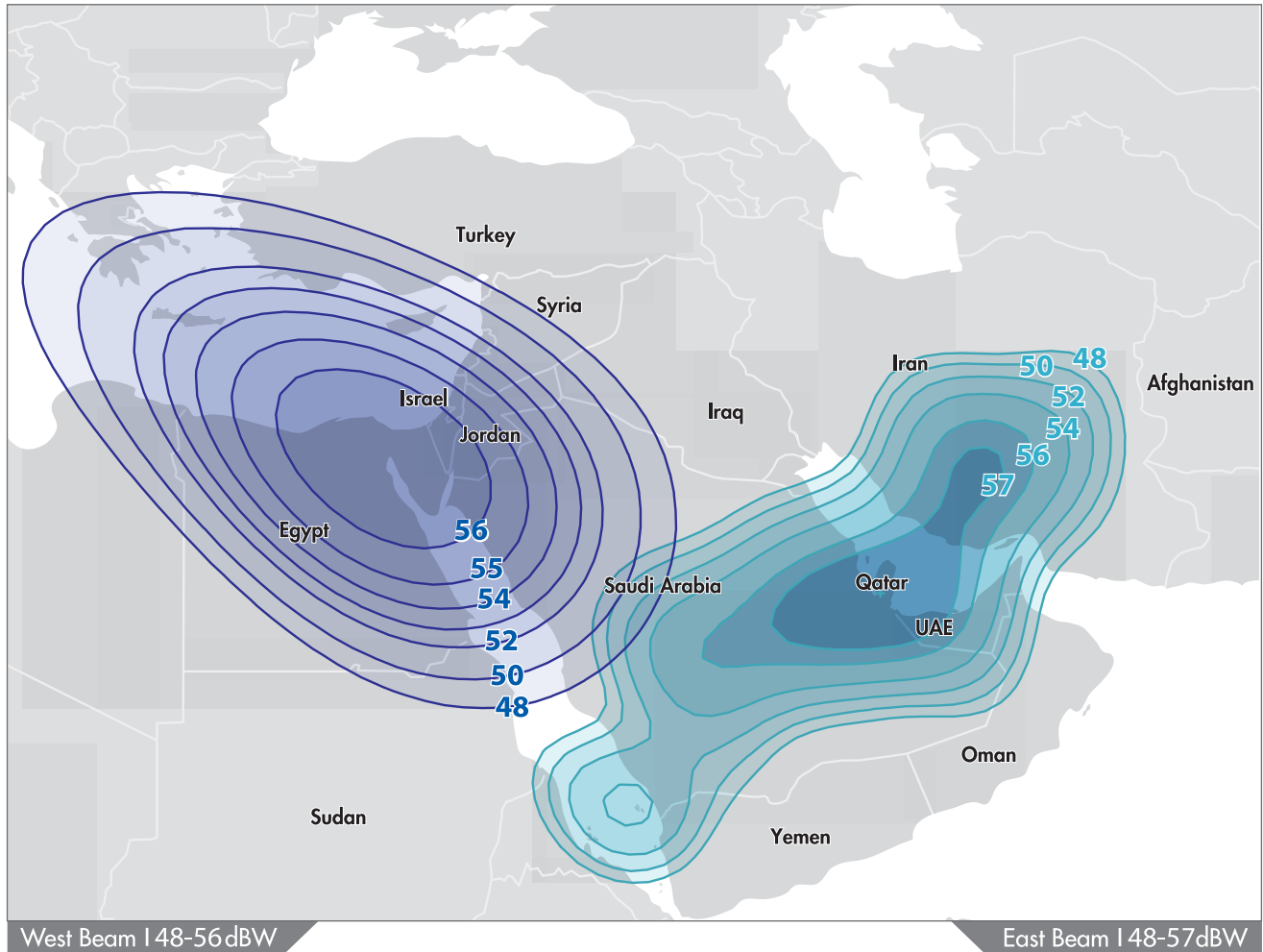
- ABS-4/Mobisat-1 is a geostationary mobile multimedia Space Systems/Loral satellite.
- It is equipped with S-band and Ku-band coverage over the MENA countries.
- The satellite provides direct broadcast of digital audio/video content to mobile users via two high-powered cross polarized Ku/S band beams (West Beam and East Beam).
- The satellite is capable of distributing digital data content to terrestrial repeater networks within the beam via two Ku/Ku-band beams.

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



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/m²)	-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)