

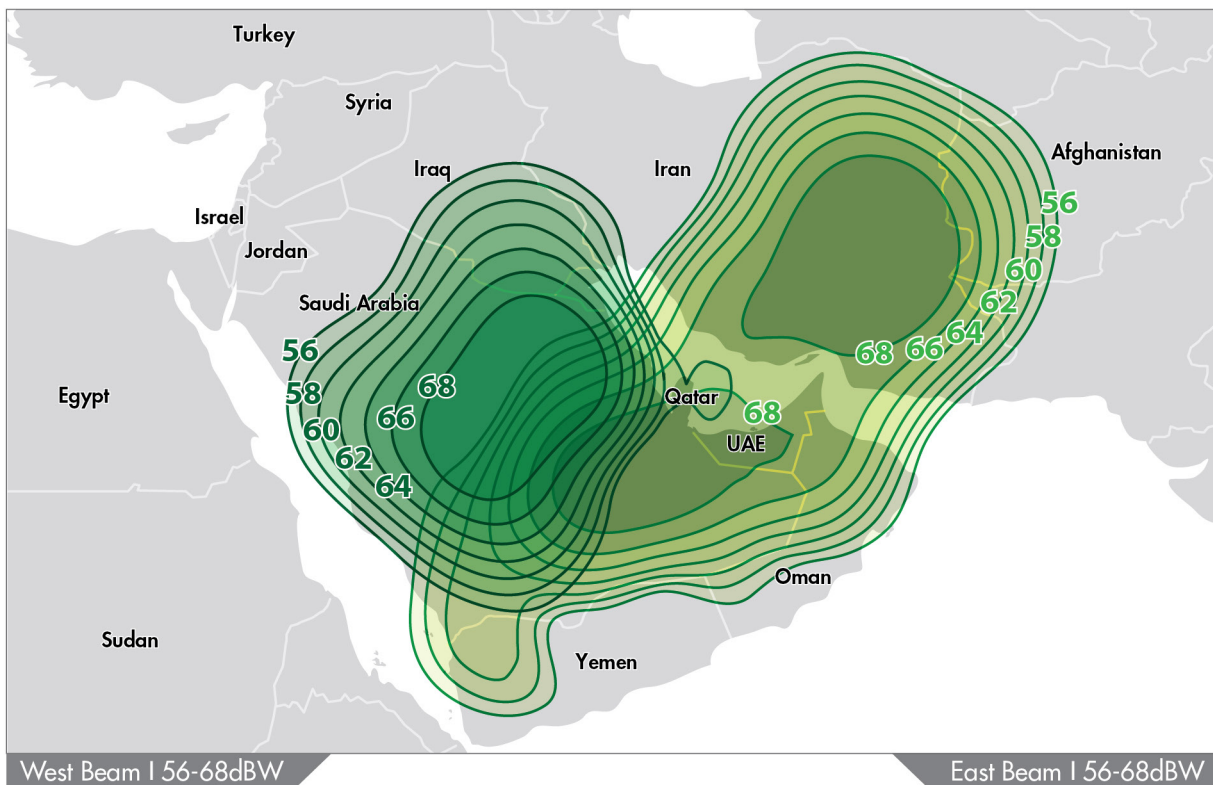
ABS-4/Mobisat-1 61°E



ABS-4 / Mobisat-1 KEY HIGHLIGHTS

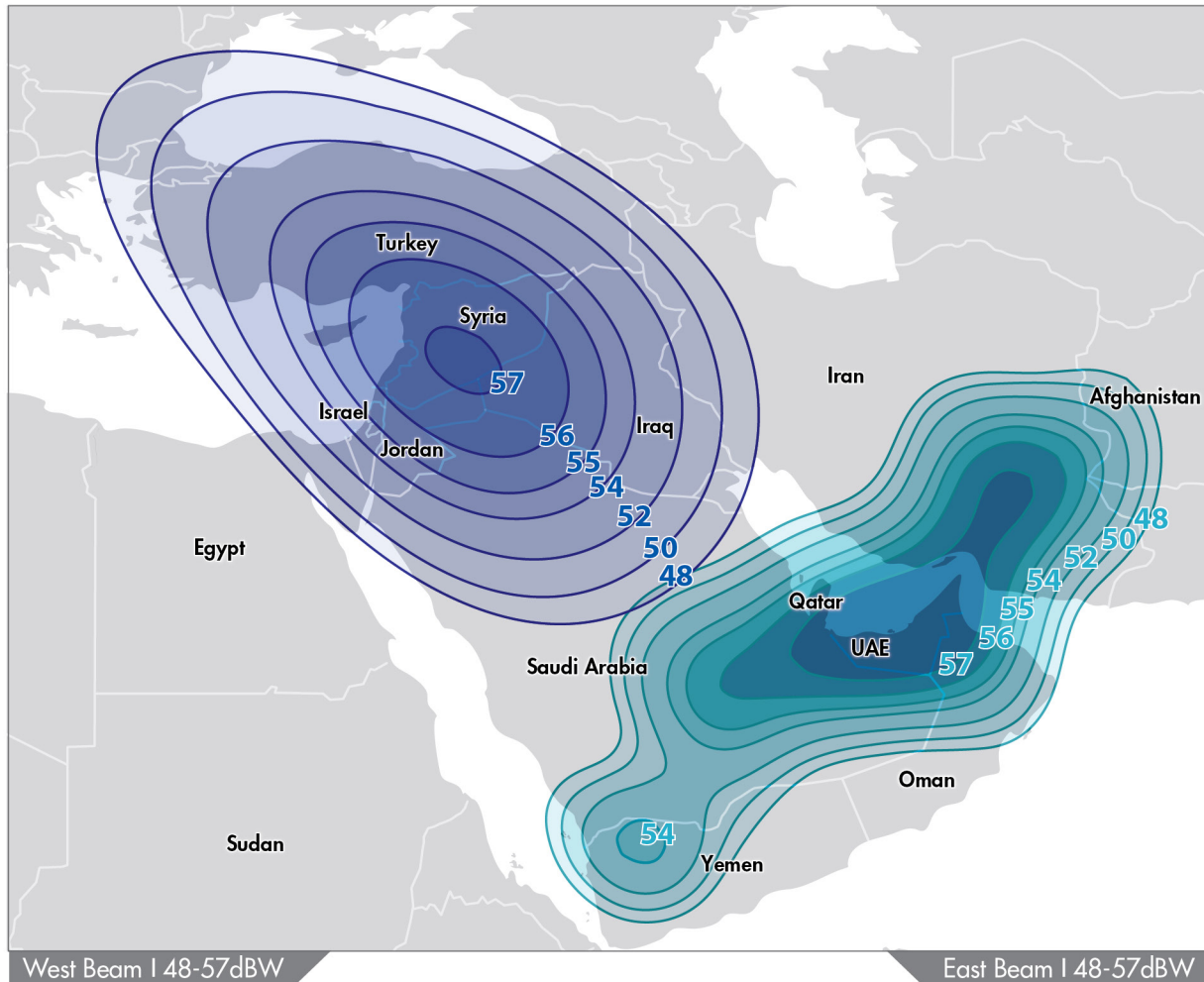
- ABS-4/Mobisat-1 is a geostationary mobile multimedia Space Systems/Loral satellite.
- It is equipped with S-band and Ku-band coverage over the MENA countries.
- The satellite provides direct broadcast of digital audio/video content to mobile users via two high-powered cross polarized Ku/S band beams (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 (Peak Value) (dBW) | 68 (East Beam) 68 (West Beam) | 57 (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 (Peak Value) (dB/K) | 14.5 (East Beam) 14 (West Beam) | 14.5 (East Beam) 14 (West Beam) |