



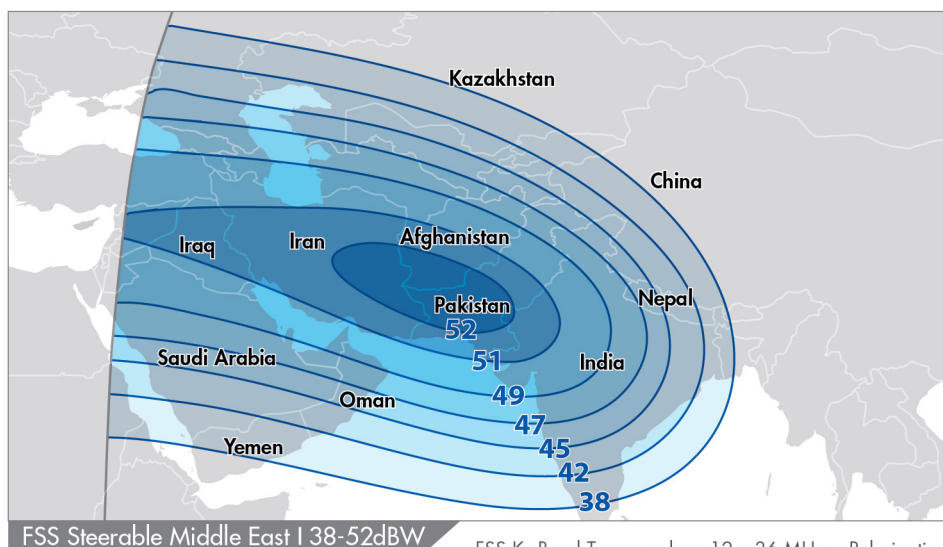
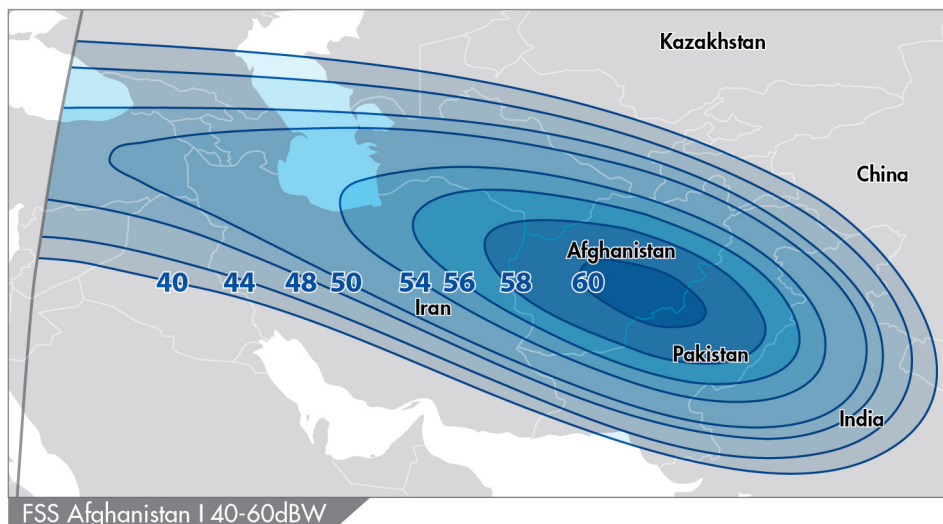
ABS-7 KEY HIGHLIGHTS

- Two high-powered FSS beams cover Afghanistan and the Middle East region, ideal for both government and commercial uses.
- Highly compatible for UAV and government mobility applications.
- ABS-7 inclined orbit operation (IOO) is suitable for several commercial mobility and IP trunking applications.
- BSS Ku-band and Ka-band coverage extends over Afghanistan and Pakistan.

TECHNICAL DETAILS

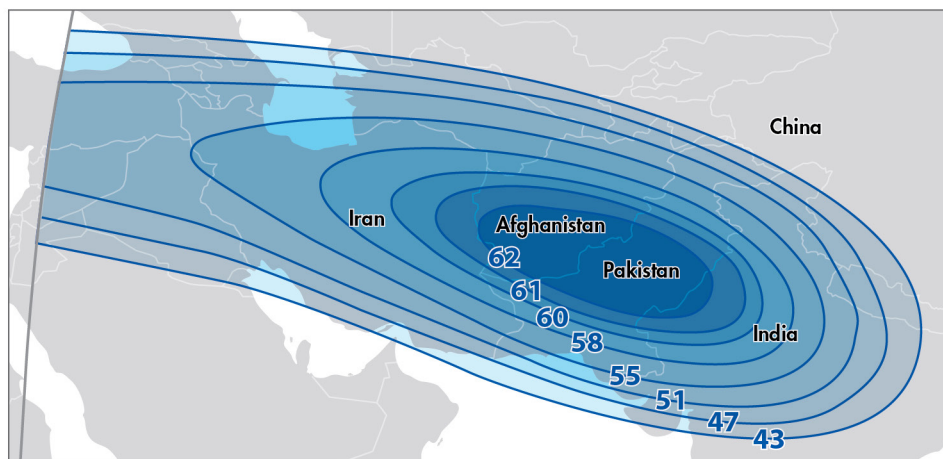
- During inclination, pointing will be automatically corrected by the spacecraft and there will be no change in beam performance or footprint on the ground.
- Ability to use inclined capacity is dependent upon antenna size and tracking capabilities, in addition to link budget power.
- ABS-7 is a Lockheed Martin A2100 satellite.

KU BAND BEAMS



FSS Ku-Band Transponders: 12 x 36 MHz Polarization: Linear
Uplink/Downlink Frequency: 14.000 – 14.500/12.250 – 12.750 GHz

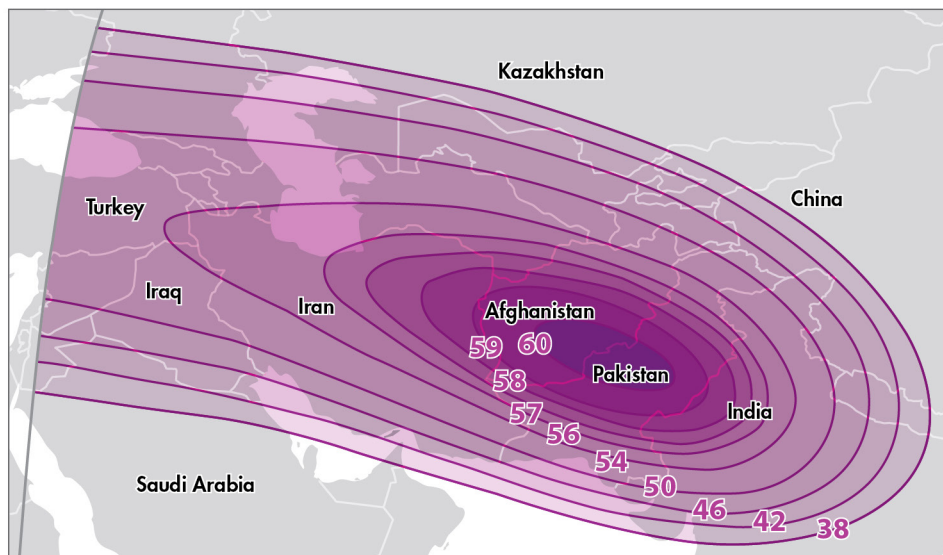
KU BAND BEAM



BSS Afghanistan I 43-62dBW

BSS Ku-Band Transponders: 6 x 27 MHz Polarization: Circular
Uplink/Downlink Frequency: 14.500 – 14.800 / 11.700 – 12.000 GHz

Ka BAND BEAM



Afghanistan I 38-60dBW

Ka-Band Transponders: 3 x 200 MHz Polarization: Circular Uplink/Downlink Frequency: 30.085 – 30.885/20.355 – 21.155 GHz

PARAMETER	FSS Ku BAND	BSS Ku BAND	Ka BAND
Number of Transponders	12 (Afghanistan) & 12 (Middle East)	6	3
Transponder Bandwidth (MHz)	36	27	200
Uplink/Downlink Frequency (GHz)	14.000–14.500/ 12.250–12.750	14.500–14.800/ 11.700–12.000	30.085–30.885/ 20.355–21.155
Uplink/Downlink Signal Polarization	Linear	Circular	Circular
Cross-Polarization Separation (dB)	33	27.3	28
EIRP (Peak Value) (dBW)	60 (Afghanistan) & 52 (Middle East)	62	60
TWTA Size (Watts)	45	120	82
TWTA Redundancy	32 for 24	9 for 6	5 for 3
Receiver Redundancy	5 for 3	2 for 1	2 for 1
Uplink SFD (dBW/m²)	-93.5 (Afghanistan) & -87 (Middle East)	-85.5	-89.5
G/T (Peak Value) (dB/K)	17.5 (Afghanistan) & 12 (Middle East)	18	14.5