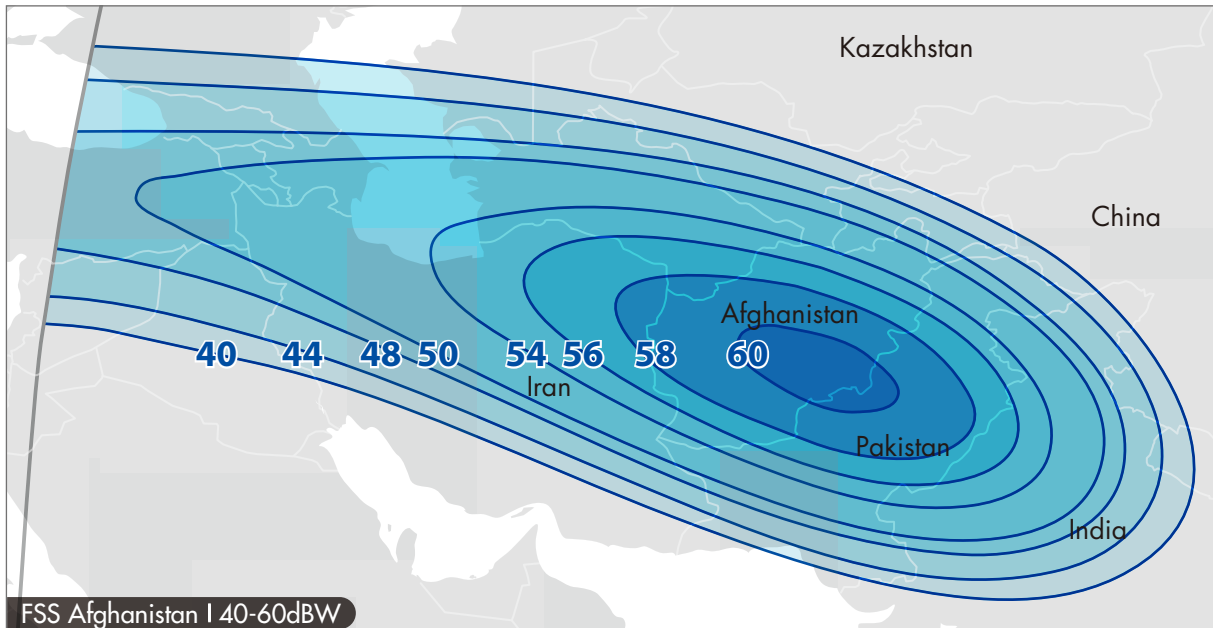


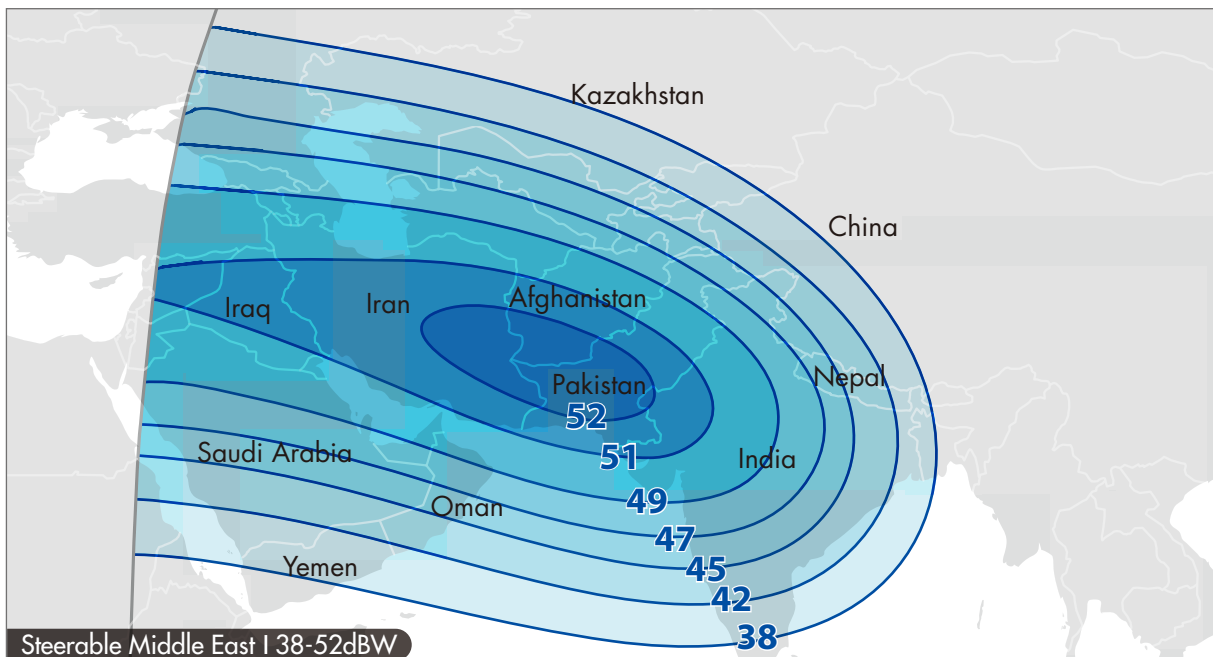
## ABS-7 KEY HIGHLIGHTS

- ▶ The two FSS beams cover Afghanistan and the Middle East region, making it ideal for GSM cellular backhaul, satellite broadband, VSAT services and government applications
- ▶ High-powered BSS Ku-band coverage over Pakistan, Afghanistan and North West India is suitable for DTH & CATV video distribution
- ▶ Ka-band with beam over Afghanistan and Pakistan provides services suitable for government applications
- ▶ ABS-7 is a Lockheed Martin A2100 satellite

## KU BAND BEAMS

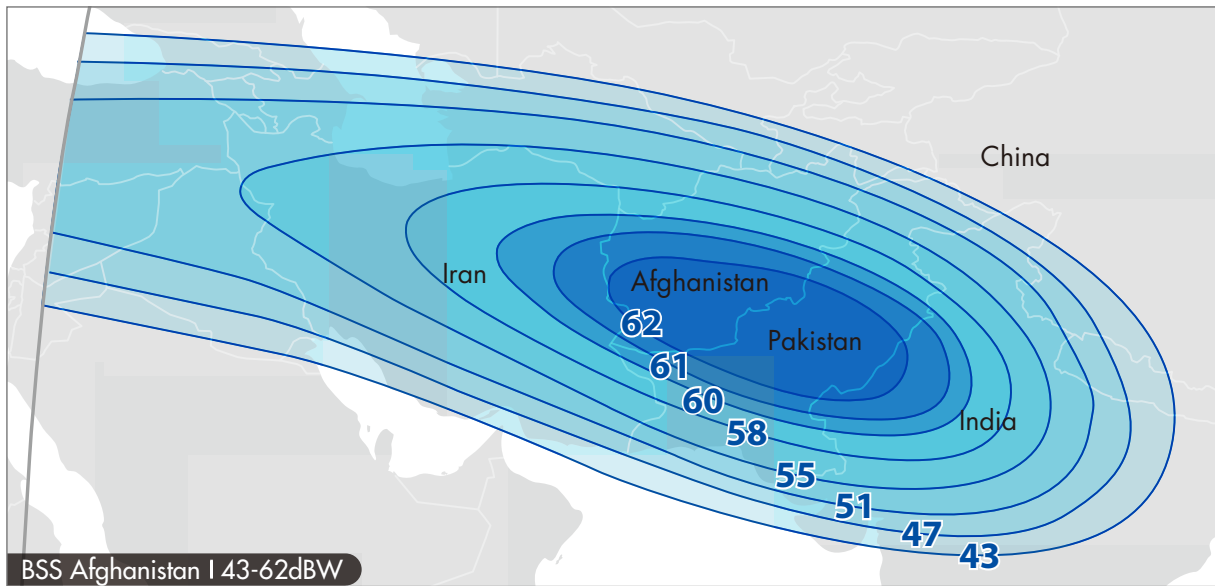


FSS Ku-Band Transponders: 12 x 36 MHz Polarization: Linear  
 Uplink/Downlink Frequency: 14.000 – 14.500/12.250 – 12.750 GHz



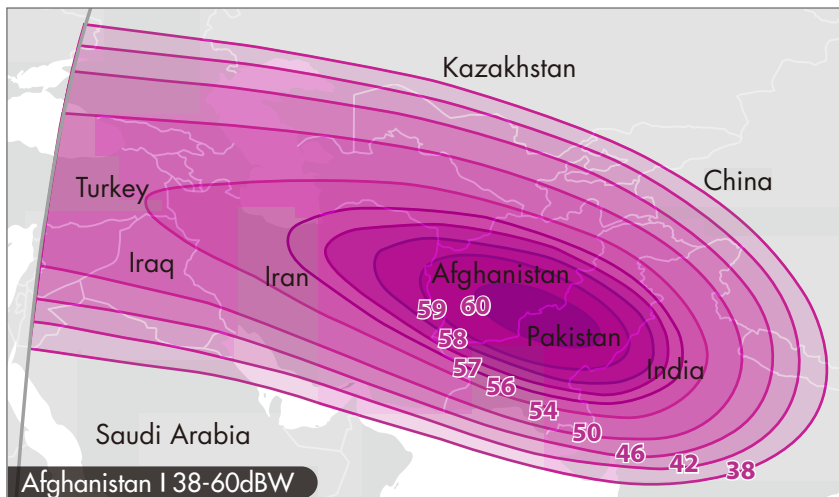
FSS Ku-Band Transponders: 12 x 36 MHz Polarization: Linear  
 Uplink/Downlink Frequency: 14.000 – 14.500/12.250 – 12.750 GHz

## KU BAND BEAM



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

## KA BAND BEAM



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/m <sup>2</sup> )	-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