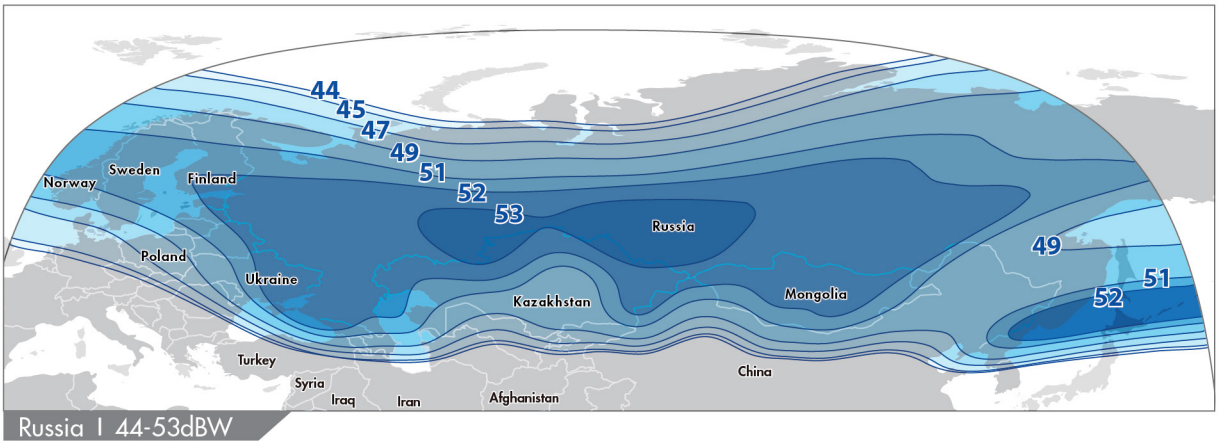
ABS-2A

75°E

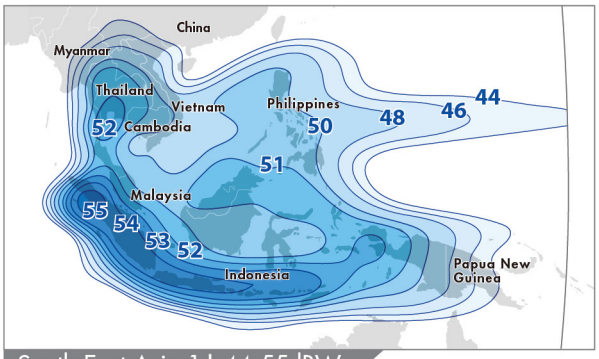
ABS-2A KEY HIGHLIGHTS

- ABS-2A is a Boeing 702SP all-electric propulsion satellite that entered commercial service on 21st January 2017.
- It is co-located with ABS-2 satellite at the prime location at 75°E and provides continuity and expansion capacity at this key orbital position.
- Designed with 48 transponders, the satellite has high performance Ku-band beams over key markets: South East Asia, Russia, Africa and MENA regions.
- It offers fast, efficient and scalable connections between Asia, Middle East, Africa and Russia.
- The satellite features two dedicated beams over South East Asia to serve the high demand for capacity and growth in this region.
- ABS-2A is suitable for DTH services, cellular backhaul, VSAT operators, maritime and mobility solutions.

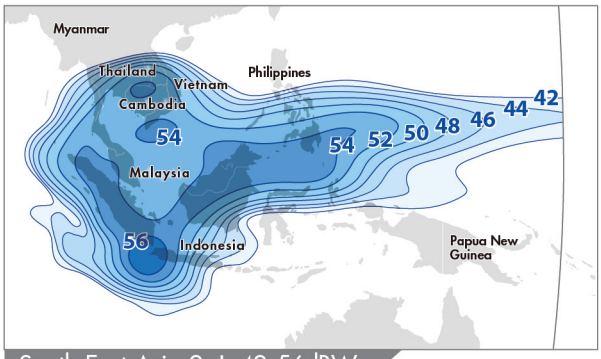
KU BAND BEAMS



Russia I 44-53dBW

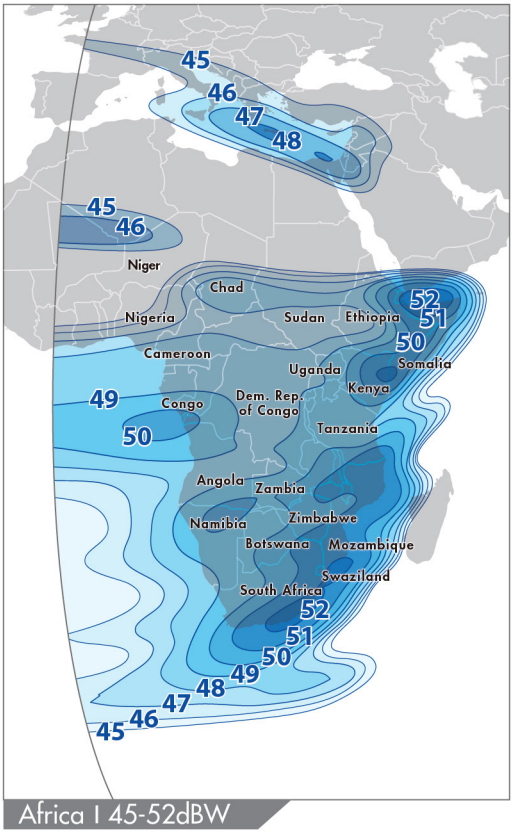


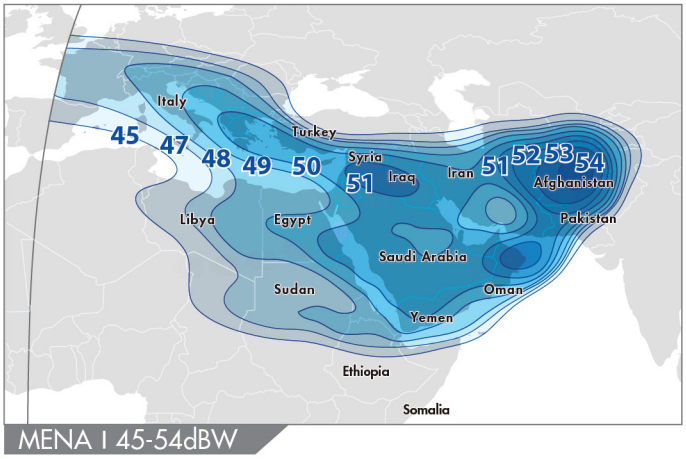
South East Asia 1 I 44-55dBW



South East Asia 2 I 42-56dBW

ABS-2A 75°E





48 Ku-band Transponders (54, 72 or 108 MHz) for 5 beams Polarization: Linear (H&V)
Uplink/Downlink Frequency: 13.750 – 14.800 & 17.300 – 18.100 / 10.950 – 11.200 & 11.450 – 12.750

PARAMETER	Ku BAND
Number of Transponders	48
Transponder Bandwidth (MHz)	54, 72, 108
Uplink/Downlink Frequency (GHz)	13.750–14.800 & 17.300–18.100 / 10.950–11.200 & 11.450–12.750
Uplink/Downlink Signal Polarization	Linear (H&V)
Cross-Polarization Separation (dB)	> 27
EIRP (Peak Value) (dBW)	53 (Russia FSS) and 53 (Russia BSS) 55 (South East Asia 1) 56 (South East Asia 2) 52 (Africa) 54 (MENA)
TWTA Size (Watts)	150
TWTA Redundancy	48 for 40 (with 8 active spares)
Receiver Redundancy	2 for 1
Downconverter Redundancy	2 for 1
Uplink SFD (dBW/m²)	-96 to -74 (at 0 dB/K)
G/T (Peak Value) (dB/K)	9 (Russia BSS) and 8 (Russia FSS) 12 (South East Asia 1) 11 (South East Asia 2) 7 (Africa) 8 (MENA)