PRODUCT INFORMATION
& SPECIFICATIONS

KING COBRA 2M X/KA TRI-BAND
MARITIME SATELLITE TERMINAL

- Simultaneous X and Ka-Band operation
- GEO, MEO, LEO, HEO compatible
- WGS certification
- Inmarsat GX certification underway
- SES certification underway

King Cobra Maritime Terminal
Designed with the collaboration of the Royal Australian Navy, the King Cobra builds on the success of the Cobra terminal, offering full 3.5GHz wide Ka-band and simultaneous X-band with a single fibre connection to the below deck.

Increased system availability
Increased system availability due to best-in-class pointing accuracy, a result of using closed-loop beacon signal processing, the terminal's proprietary monopulse tracking system and full active redundancy.

Antenna Diversity
Antenna Diversity System available in handover or independent look.

GOV SAT REGISTERED

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COBRA

SPECIFICATIONS

SPECIFICATIONS	X-BAND	Ka-BAND MILITARY	Ka-BAND COMMERCIAL
Antenna Size	2.25 m		
RF Frequency	Rx 7.25 to 7.75 GHz Tx 7.9 to 8.4 GHz	Rx: 20.2 to 21.2 GHz Tx: 30.0 to 31.0 GHz	Rx: 17.7 to 20.20 GHz Tx: 27.5 to 30.0 GHz
G/T mid band	>19.5 dB/K	>23.5dB/K	>22.5dB/K
Antenna Gain	Rx >41.72dB Tx >42.22dB	Rx >49.10dB Tx >51.26dB	Rx >48.00dB Tx >51.15dB
EIRP (linear)	>61dBW	>63 dBW	>62.0 dBW
Polarisation	RHCP/ LHCP Electronic switching. Cross pol. only	RHCP/ LHCP Electronic switching. Co and cross pol. supported	
Sidelobes	MIL-STD-188-164		
Pointing Error	<0.2deg		
ADU Height	3160mm (incl. shock mount)		
Base Footprint	850mm diameter		
ADU Weight	950kg approx		
Timing/ Reference	Embedded 10MHz atomic reference (GPS independent)		
Ship's nav. interface	NMEA-1083. Accepts heading, location and time of day messages		
IFL	Fibre for data and management. Copper for power supply.		
Pedestal Type	3 axis, Az 360^{O} continuous, EL -10 ^{O} to 190^{O}, XEL ±15^{O}		
Antenna diversity	Supports two ADUs. Handover and independent modes supported.		
Supported Orbits	GEO, MEO, LEO and HEO		
Satellite Operator Certifications	WGS 3.0 certification Inmarsat GX underway mPower/O3b underway		
Compliance	EMI/EMC - MIL-STD-461G, MIL-STD-464C, Environment - MIL-STD-810H, MIL-STD-167/1, MIL-STD-901D		