



PRODUCT INFORMATION & SPECIFICATIONS

COBRA 1M X/KA TRI-BAND MARITIME SATELLITE TERMINAL

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



Cobra Maritime Terminal Family

Designed initially for the Australian Defence Force to operate at Ka-band on WGS satellites, and subsequently tailored for civilian use in emergency services applications, EM Solutions' Cobra satellite terminals affordably combine robust, resilient design and MIL-STD quality with a state of the art antenna feed for simultaneous operation in X-band military Ka-band, with the option to switch to commercial Ka-band in the event of congestion.

Increased system availability

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

Antenna Diversity

Antenna Diversity System available in handover or independent look.

SPECIFICATIONS

SPECIFICATIONS	X-BAND	Ka-BAND MILITARY	Ka-BAND COMMERCIAL
Antenna Size	1m		
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: 19.2 to 20.20 GHz Tx: 29.0 to 30.0 GHz
	Simultaneous operation possible with Ka Band	Switchable between Commercial and Military operating bands via Ethernet User Interface	
G/T mid band	>13.2 dB/K	>20dBK	
Antenna Gain	Rx 36dB Tx 36dB	Rx 44.9dB min Tx 47.1dB min	
EIRP (linear)	>49dBW	>60dBW min	
Polarisation	Circular		
Sidelobes	Mil-Std-188-164		
Pointing Error	<0.2deg		
Height (radome)	1500mm		
Base Footprint	850mm diameter		
Weight	225kg		
Power Consumption	<750W MAX.		
Environmental	Tested in accordance to MIL-STD-810G CN1 and IEC 60945:2002 Compliant to Inmarsat GX Requirements		
Supply Voltage	90-264V AC		
Pedestal Type	3 axis, Az 360 ⁰ continuous, EL -20 ⁰ to +110 ⁰ , XEL ±35 ⁰		
Tracking Type	Monopulse on X- or Ka-band Beacon or User Defined Carrier		
INU & Gyros	Embedded		
Modem Support (three modem ports available)	Compatible with Viasat EBEM MD-1366 modem or equivalent		Integrated Inmarsat GX modem or switchable to Customer supplied modem
Satellite Operator Certifications	SKYNET/ WGS		Inmarsat GX
Regulatory	IEC 60945 IEC 60950 C tick Compliant to Inmarsat GX Requirements		