X/Ku/Ka-Band Vehicle Mount Tri-Band Antenna
DRM150

- X / Ku / Ka-Band tri-feed
- 1.5m reflector carbon fibre antenna
- Quick change feed cassette (X / Ku / Ka)
- Integrated BUC, LNB and wave-guide
- Up to 80W X-Band / 50W Ku-Band / 20W Ka-Band
- Full auto-pointing capability

OPTIONS

- PSU redundancy (pod mounting)
- 19” rack control panel
- Customer specific colour
- 3 axis jog-controller
- Auto-pointing controller
- Inclined orbit tracking controller

The RM150 is a Eutelsat Characterised DSNG Antenna from Holkirk designed to excel in today’s demanding DSNG environment.

With excellent attention to mechanical detail and high performing materials selection, the RM series of antennas will provide many years of continuous service in the harshest of applications.

COMPACT

The DRM antenna is an ultra-compact tri-band system which encompasses the drive control, positioning hardware and beacon receiver into the fully sealed and aerodynamic antenna enclosure, making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

VERSATILE

The multi-band operation has been designed for effortless change over in the field. The feed, BUC and waveguide for each band is mounted on a simple and quick interchange cartridge which means the only connections you need to make are power, L-Band and control.

EASE OF USE

There are no tools required to change the band of operation. All satellite acquisition commands are performed via the simple and easy to use antenna controller unit. The DRM system is equipped with a GPS receiver, electronics compass and levelling inclinometers.

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DRM150

SPECIFICATION

Antenna Width:	150 cm
Antenna Height:	152 cm
Geometry:	Single Offset
Reflector Material:	Carbon Fibre
Weight:	100kg (without BUC)
Azimuth range:	+/- 185°
Elevation range:	5° - 90° (optional 1° - 90°)
Polarisation range:	+/- 90°

Environmental Data

Operating temperature:	-20°C - 55°C (Storage -40°C - 70°C)
Solar radiation:	1,200W/ m2
Wind speed:	44mph operational (100mph survival stowed)
Rain fall:	125mm/h (excluding link budget effects)

Electrical Data

	X-Band	Ku-Band	Ka-Band
Receive			
Polarisation:	LHCP	Linear	LHCP
Frequency band:	7.25 – 7.750GHz	10.95 – 12.75GHz	17.7 – 22.2GHz
Gain @ mid band:	38.7 dBi	43 dBi	47.0 dBi
G/T (20° elevation):	>17 dB/k	>21 dB/k	>23 dB/k
Transmit			
Polarisation:	RHCP	Linear Orthogonal	RHCP
Frequency band:	7.90 – 8.40GHz	13.75 – 14.5 GHz	27.5 – 30GHz
Gain @ mid band:	40.3dBi	44.7dBi	50.6dBi
Cross Polarisation:	-30dB	-35dB	-30dB
Port to Port Isolation:	20dB	40dB	35dB

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