

- 1.2m and 1.5m reflector options
- SMC or carbon fibre antenna
- Exceptional value
- Up to 400W integrated 1:1 Tx power (RM120)
- Up to 750W integrated 1:1 Tx power (RM150)
- Auto-Acquire / Manual Jog

Compact

The RM antenna is an ultra-compact roof mount system which encompasses the drive control, positioning hardware and BUC/HPA into the aerodynamic antenna enclosure, making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

Versatile

The versatile power-payload of the RM antenna series has been designed to take low power SSPAs or high power TWTs in single thread or 1:1 redundant configurations with power levels up to 400W for the RM120 and up to 750W for the RM150.

Auto-Acquire

The Satellite Acquisition Controller uses industry standard position transducers and a sophisticated pattern recognition algorithm to confirm and refine its heading information using visible satellites. The controller is mounted on the antenna structure with a separate power supply and control panel in a rack mount unit for mounting within the equipment area.



Ease of use

The system is simple to install, set up and use. Following relocation of the antenna, the system will reliably and accurately locate and lock on to the designated traffic satellite, typically in less than 3 minutes from stowed.

Options :-

- 1:1 Redundancy switching systems
- Vehicle mounting brackets
- De-Ice Kit (RM120)
- 3-axis Jog-controller
- Auto-pointing controller
- Inclined orbit tracking controller



Specification:-

RM120/SNG

RM150/SNG

Mechanical Data

Antenna Width :			123 cm		150 cm
Antenna Height :			127 cm		152 cm
Geometry :			Offset, dual optic		Single offset
Reflector Material :			SMC		Carbon fibre
Weight:			100kg		100kg
Speed:	Elevation	Fast	2°/Sec		2°/Sec
		Slow	0.5°/Sec		0.5°/Sec
	Azimuth	Fast	5°/Sec		5°/Sec
		Slow	1°/Sec		1°/Sec
Feed interface :			WR 75		WR 75
Azimuth range :			+/- 185°		+/- 185°
Elevation range :			10~90°		5~90°
Polarisation range :			+/- 95°		+/- 95°
Operating temperature :			-30°C~+60°C		-30°C~+60°C
Wind Speed	Operational		45mph (72kph)	Gusting to	60mph (97kph)
	Stowed		100mph (161kph)		

Electrical Data

Receive

Polarisation :	linear	linear
Frequency band :	10,7 ~ 12,75 GHz	10,7 ~ 12,75 GHz
Gain @ 12,5 GHz :	41.8 dBi	44 dBi
G/T (30° elevation) @ 12.5 GHz :	21 dBK	23 dBK

Transmit

Polarisation :	linear orthogonal	linear orthogonal
Frequency band :	13,75 ~ 14,5 GHz	13,75 ~ 14,5 GHz
Gain @ 14,25 GHz :	43 dBi	45.7 dBi

VSWR : 1.3 : 1 max 1.3 : 1 max

Isolation Rx / Tx (13,75~14,5 GHz) : 40 dB min 40 dB min
 Isolation Tx / Rx (10,75~12,75GHz) : 75 dB min 75 dB min

