

SMP 125DA

1.2m Driveaway Antenna



Satmission model SMP 125DA Streamline is a high performance professional Gregorian dual offset Driveaway Broadcast antenna system capable of transmitting IP, SD, HD and 3DTV.

Its breath-taking aerodynamic design is optimised to meet stringent weight budgets, while still having space within the protective weatherproof Antenna box to securely house up to 2 redundant/phase-combined 400W amplifiers resulting in EIRP 70dBW.

With its minimal weight 69 kg and low structural profile, it is easy to install onto any type of vehicle, from a small car up to a large truck.

The ultra low profile (39cm) and weight enables travelling speed up to extreme 220km/h. The stunning design also makes Satmission Streamline DSNG Antenna family to one of the most environmental friendly in the industry.

Rugged, all outdoor equipment securely protected inside the casing.



- Eutelsat, SES, Intelsat and FCC Compliant
- Carbon fibre high performance Gregorian dual-offset Dish 1.25m
- Ultra low weight and aerodynamic profile
- Rapid deployment
- Auto pointing with GPS and Compass
- Electrical and Manual backup drive
- Custom configurable
- High Reliability and low Maintenance
- Travelling speed up to 220 km/h

Technical Specifications

Electrical Specifications		2 Port Cross-Pol Ku Band Std Feed	
		Rx	Tx
Frequency (GHz)		10.70 - 12.75	13.75 - 14.5
Gain (midband, dBi)		41,1 @11.2GHz	43,2 @14.25GHz
Noise Temperature 20 deg El	°K	95K	
Typical G/T 70 deg LNA		22.3 db/°K	
EIRP		Up to 70 dBW	
Cross Pol On Axis		-35 dB	-35 dB
Axial Ratio			
Sidelobe Compliances		Meets FCC ITU 25.209	Eutelsat ITU-580
VSWR		1.35:1	1.30:1
Isolation			
Tx/Rx		-85 dB	0 dBm input
Rx/Tx		0 dBm input	-30 dB

Mechanical/Environmental Specifications		
Reflector		1.25 meters Gregorian dual-offset carbon fiber dish
Reflector Offset Angle (deg)		21.8
Antenna Travel		
Azimuth		± 186° continuous
Elevation		5 - 75° of reflector boresight, 5 - 85° with modified antenna cover*
Polarisation		± 110°
Antenna Drive Rate		
Azimuth		4°/sec
Elevation		4°/sec
Polarisation		10°/sec
Temperature		
Operational		-27 to +50°C (down to -40°C with optional de-icing kit)
Survival		-40 to +70°C
Pointing Loss (operational)		2dB peak (Ku-band Rx)
Winds		
Operational		72 kph Gusting to 90 kph
Survival		110 kph any position 220 kph stowed
Antenna Stowed Dimensions		Length: 197 cm Width: 125 cm Height: 39.5 cm
Weight		69 kg
Integration		
Feedboom Mounted		1 pc 100w BUC
Pod Mounted		Up to 2 pcs redundant / phase-combined 400W amplifiers.
Rain		
Operational		10 cm/h
Survival		15 cm/h
Relative Humidity		0 - 100%
Solar Radiation		1000 Kcal/h/m²
Radial Ice (survival)		25 mm
Corrosive Atmosphere		As encountered in coastal and/or industrial areas

Note: Specifications subject to change without notice

* Consult Engineering for details

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