

# SMP 155DA

## 1.5 m Driveaway Antenna

The Satmission Streamline SMP 155DA is a high performance and high gain professional Driveaway Broadcast satellite antenna system which is capable of transmitting IP, SD, HD and 3DTV signals.

Its breath-taking aerodynamic design is optimised to meet stringent weight budgets, while still having space within the Antenna box to securely house up to 2 redundant/phase-combined 750W amplifiers resulting in EIRP 75dBW.

With its minimal weight of 79 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 and weight enables travelling speed up to extreme 220km/h.

The Streamline spoiler form of the stowed DSNG Antenna allows it to be driven comfortably at high speeds with impressive industry leading eco-driving and environmental friendly qualities.

Rugged, all outdoor equipment securely protected inside the casing.



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

# Technical Specifications

<b>Electrical Specifications</b>		<b>2 Port Cross-Pol Ku Band Std Feed</b>	
		<b>Rx</b>	<b>Tx</b>
Frequency (GHz)		10.70 - 12.75	13.75 - 14.5
Gain (midband, dBi)		43.3 @11.2GHz	45.3@14.25GHz
Noise Temperature 20 deg El	°K	107K	
Typical G/T 70 deg LNA		21.6 db/°K	
EIRP		Up to 75 dBW	
Cross Pol On Axis		≥30 dB	≥30 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

<b>Mechanical/Environmental Specifications</b>		
Reflector		1.55 meters Gregorian dual-offset carbon Fiber dish
Reflector Offset Angle (deg)		27.6
Antenna Travel		
Azimuth		± 186° continuous
Elevation		5 - 75° of reflector boresight, 5 - 82° with modified antenna cover*
Polarisation		± 110°
Antenna Drive Rate		
Azimuth		4°/sec
Elevation		4°/sec
Polarisation		10°/sec
Temperature		
Operational		-27 to +50°C
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: 208 cm Width: 158 cm Height: 49 cm
Weight		79 kg
Integration		
Feedboom Mounted		1 pc 100w BUC
Pod Mounted		Up to 2 pcs redundant / phase-combined 750W amplifiers.
Rain		
Operational		10 cm/h
Survival		15 cm/h
Relative Humidity		0 - 100%
Solar Radiation		1000 Kcal/h/m <sup>2</sup>
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

Satmission by KebNi  
Bultenvägen 5  
S-95261 Kalix, Sweden

E-mail: [sales@satmission.com](mailto:sales@satmission.com)  
Web: [www.satmission.com](http://www.satmission.com)