

Kebni Satmission | SMP 180DA

1.8 m Driveaway Antenna



The Satmission Streamline SMP 180DA is a high performance and high gain professional Driveaway Broadcast satellite antenna system.

Its breath-taking aerodynamic design is optimized to meet stringent weight budgets, while still having space within the Antenna box to securely house up to 2 redundant/phase-combined amplifiers resulting in EIRP 77dBW.

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/POD.

SMP 180DA **KEY FEATURES**

- ✓ Eutelsat, SES, Intelsat and FCC Compliant
- ✓ Carbon fibre high performance Gregorian dual-offset Dish 1.8 m
- ✓ 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

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Electrical specifications	2 Port Cross-Pol C Band Linear feed		2 Port Cross-Pol C Band Circular feed		2 Port X Band Circular		2 Port Cross Pol Ku Band Circular	
	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx
Frequency (GHz)	N/A		3.625 - 4.20	5.85 - 6.425	N/A		10.70 - 12.75	13.75 - 14.5
Gain (midband, dBi)	Upcoming option		35,4	39,5	Upcoming option		45,3	46,6
Noise Temp, (°K) 20 deg EI			36					
G/T			41		23 dBk @11.2 GHz LNB 60dB NF 0.7 dB			
Axial Ratio			3,0 dB	2,3 dB				
Cross Pol								
On Axis			-15.3 dB	-17.5 dB			-30 dB	-30 dB
in 1 dB BW			-15.3 dB	-17.5 dB			-23 dB	-23 dB
Sidelobe Compliance			IESS 207				Meets ITU 580	
VSWR			1.50:1	1.30:1			1.50:1	1.30:1
Isolation								
Tx/Rx			-60 dB	0dBm input			-110 dB	0 dBm input
Rx/Tx			0 dBm input	-60 dB			0 dBm input	-35 dB

Mechanical/Environmental Specifications	
Reflector	1.8 meters (70.9") - Carbon fiber
Reflector Offset Angle (deg)	22.6°
Antenna Travel	
Azimuth	± 186°
Elevation	12 - 75°
Polarisation – Ku band	Linear feed: ± 112°
Antenna Drive Rate	
Azimuth	4.0° /sec
Elevation	2.5° /sec
Polarisation – Ku band	5.0° /sec
Temperature	
Operational	-27 to 50°C, available cold climate option
Survival	-40 to +70°C
Pointing Loss (operational winds)	2 dB (Ku-band Rx)
Winds ¹	
Operational	55 kph gusting to 80 kph
Survival	110 kph any position
	200 kph stowed
Antenna Stowed Dimensions	Length: 279 cm (109.8") Width: 184 cm (72.4") Height: 65,0 cm (25.6")
Weight ³	125 kg (276 lbs) - without integration
Integration ²	
Feedboom Mounted	Max additional boomload 8 kg
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 ²
Radial Ice (survival)	12,7 mm
Corrosive Atmosphere	As encountered in coastal and/or industrial areas

Note: Specifications subject to change without further notice

¹ Dependent on vehicle capabilities

² Dependent on mounting position relative to elevation axis

³ Std weight shown, consult factory for special requirements

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