

SMP 175DA

1.8 m Driveaway Antenna



The Satmission Streamline SMP 175DA 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.



- VSAT or Broadcast Configuration
- Integrated Auto Locate Controller with Manual Override
- Auto Locate and Peak Features along with Handheld Control Unit.
- Precision Carbon Fiber Reflector
- Low Profile and Space-Optimizing Stowed Configuration
- Designed for Boom Mounted Single Thread Integration
- Eutelsat, Intelsat / ITU Compliant
- C and Ku Band Feeds

Technical Specifications

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 Linear	
	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
Gain (Midband, dBi)	Upcoming option		35.4	39.5	Upcoming option		45.3	46.6
Noise Temp. (K) 20 deg El			36				50	
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 Compliances			IESS 207				Meets ITU 580	
VSWR			1.50:1	1.30:1			1.50:1	1.30:1
Isolation								
	Tx/Rx		-60 dB	0 dBm 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 – Carbon fiber
Reflector Offset Angle	22.6°
Antenna Travel	
Azimuth	± 186°
Elevation	12 - 75°
Polarization – Ku band	Linear feed: ± 112°
Antenna Drive Rate	
Azimuth	4.0°/sec
Elevation	2.5°/sec
Polarization – 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 Width: 184 cm Height: 65,0 cm
Weight	145 kg - 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 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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