

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, Intelsat and FCC Compliant
- Carbon fibre high performance Gregorian dual-offset Dish 1.25m
- Ultra low weight and aerodynamic profile
- Rapid deployment, typical less than 1 minute
- Travelling speed up to 220 km/h
- Auto locate with GPS and Fluxgate compass
- Electrical and manual backup drive
- Custom configurable
- Electrical and mechanical backup drive
- High Reliability and low Maintenance

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 °K 20 deg El | 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) | 0,2dB 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/m ² |
| 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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