
## Technical Specification

REFLECTOR

| | |
|---|---|
| Antenna: | Motorised antenna<br>Fully automated satellite acquisition and tracking |

CONTROL

| | |
|---|---|
| Communications: | IP connection |
| Controller: | Intuitive Windows based user interface (touch screen capable)<br>Fully automated with full engineering manual control |
| Manual override: | On all axis with speed brace |

ENVIRONMENTAL

| | |
|---|---|
| Windspeed: | Operational 60mph (96.5mph)<br>Survival minimum 90mph (144kph) |

POWER

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|---|---|
| Power Consumption: | Less than 5 Amps @ 24 volts |

PHYSICAL

| | |
|---|---|
| Antenna Unit Weight: | From 42-110kg (93-242 lbs) |
| Dimensions: | Length: 2570mm Width: 1800mm Height: 690mm |

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# DriveForce®

## Ultra SNG up to 60mph operational

DriveForce® is a fully-automated, motorised, vehicle-mounted satellite uplink system designed for rapid deployment. The ultra high performance carbon fibre antenna, is fully automated and capable of high bandwidth HD and 4K transmissions.

A unique antenna mount has been designed, capable of withstanding extreme winds. These enhanced characteristics far exceed any other antenna on the market, with DriveForce remaining operational in winds up to 60mph (100kph).

DriveForce features a fully automated satellite acquisition and tracking system using SIS LIVE's differential GPS antenna control technology and works seamlessly with any satellite capacity.

For a dependable, high performance, vehicle mounted uplink, with unbeatable wind load performance, get on the road with DriveForce.



## Features

- Precision carbon fibre reflector available in 0.75m, 1.0m, 1.2m, 1.8m and 2.4m
- Fully automated acquisition
- Operational in wind speeds up to 60mph (100kph)
- Central booking system – controls the complete transmission process
- Intuitive and simple to operate – minimum training, even for novices
- Full remote control – via satellite or IP
- Amplifier enclosure mounted on turntable or feed arm
- Lightweight antenna mount to maximize residual vehicle payload
- Quad band feed options (Ka, Ku, X and C)
- ITAR free

## Technical Specification

UPLINK

| | |
|---|---|
| Ka Band: | Tx 27.5 - 30GHz |
| | Rx 18.2 - 20.2GHz |
| (option) | Tx 30.0 to 31.0GHz |
| | Rx 20.2 to 21.2GHz |
| Tx Gain: | 0.75m = 45.3dBi (typ) |
| | 1.0m = 47.8dBi (typ) |
| | 1.2m = 49.4dBi (typ) |
| | 1.8m = 53dBi (typ), |
| Rx Gain: | 0.75m = 42.1dBi (typ) |
| | 1.0m = 44.6dBi (typ) |
| | 1.2m = 46.1dBi (typ) |
| | 1.8m = 49.5dBi (typ) |
| G/T @ 19.7GHz: | 0.75m = 19.5dBk |
| | 1.0m = 22dBk |
| | 1.2m = 23.6dBk |
| | 1.8m = 25.6dBk |
| Polarisation: | Circular, linear option |

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|---|---|
| Ku Band: | Tx 13.75 – 14.5GHz |
| | Rx 10.95 – 12.75GHz |
| Tx Gain: | 0.75m = 39.2dBi (typ) |
| | 1.0m = 41.7dBi (typ) |
| | 1.2m = 43.3dBi (typ) |
| | 1.8m = 46.7dBi (typ) |
| Rx Gain: | 0.75m = 37.1dBi (typ) |
| | 1.0m = 39.6dBi (typ) |
| | 1.2m = 41.2dBi (typ) |
| | 1.8m = 44.8dBi (typ) |
| G/T @ 11.2GHz: | 0.75m 15.9dBk |
| | 1.0m = 18.4dBk |
| | 1.2m = 19.9dBk |
| | 1.8m = 23.1dBk |
| Polarisation: | Tx linear (H/V), Rx Orthogonal to Tx |

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|---|---|
| X Band: | Tx 7.9 - 8.4GHz |
| | Rx 7.25 - 7.75GHz |
| Tx Gain: | 0.75m = 34.4dBi (typ) |
| | 1.0m = 36.9dBi (typ) |
| | 1.2m = 38.5dBi (typ) |
| | 1.8m = 41.8dBi (typ) |
| Rx Gain: | 0.75m = 33.5dBi (typ) |
| | 1.0m = 36.0dBi (typ) |
| | 1.2m = 37.6dBi (typ) |
| | 1.8m = 41.3dBi (typ) |
| G/T @ 7.4GHz: | 0.75m = 11.5dBk |
| | 1.0m = 14dBk |
| | 1.2m = 15.5dBk |
| | 1.8m = 18.8dBk |
| Polarisation: | Circular |

| | |
|---|---|
| C Band: | Tx 5.85 to 6.65GHz |
| | Rx 3.4 to 4.2GHz |
| (option) | Tx 6.725 to 7.025GHz |
| Tx Gain: | 1.8m = 39.6dBi (typ) |
| | 2.4m = 42dBi (typ) |
| Polarisation: | Circular |
| Option: | Linear Polarisation |