



## NewSwift LT120 Ku Band Motorised Antenna



High performance, cost effective, compact integrated solution

### Overview

The NewSwift LT antenna is a highly compact integrated satellite terminal with a Carbon Fibre reflector designed for rapid deployment.

The NewSwift LT design allows for two HPAs, redundancy switching and two upconverters to be integrated into the antenna assembly close to the feed, thereby minimising the waveguide loss and maximising the available EIRP.

The fully weatherproof RF equipment is further protected from the weather by a removable cover thus ensuring reliable operation whatever the environmental conditions.

### Features

- Available with 1.2 meter Carbon Fibre reflector
- Full 3 axis control includes 360° azimuth range
- GPS based auto satellite acquisition packages available
- 800 City database controller
- Tracking option with beacon receiver
- Full remote control
- Approved for use with the majority of Satellite Providers
- Type - offset fed
- Configuration - prime focus
- Mount - elevation over azimuth
- Software upgradeable to auto-acquire (ACU5216) with integral ASI Demod and for Eutelsat approved Auto-Point capability
- Available in custom colour schemes

# Specifications

## General

### Meets The Requirements of

- ITU-R S.580-6
- ITU-R S.465-5
- INTELSAT IEES-601
- EUTELSAT EESS-502
- MIL STD 188-164A
- STANAG 4484  
(as applicable)

### Antenna Position Control

Linear Polarisation: Full 3 axis motor control with manual override mechanism

### Azimuth Adjustment

- 360°

### Elevation Adjustment

- 6° to 91°

### Polarisation Adjustment

- +/- 90°

### Antenna Control Unit

- Compact half width rack unit
- Serial remote interface
- "One touch" stow & deploy
- Fast / med / slow motor drive system
- Simultaneous positional feedback of Az / El / Pol axis with true elevation reading from calibrated inclinometer



## Options

- GPS based auto-acquire upgrade package
- Rotary joint for azimuth axis
- Numerous install kits for 3rd party BUCs / HPAs
- Simultaneous H / V reception (3-Port)

## Frequency

(Reflector diameter 120cm)  
 Ku: . . . . . Tx 13.75 to 14.5 GHz  
 (option from 12.75 GHz)  
 Rx 10.70 to 12.75 GHz

## Gain

Ku: . . Tx 43.3 dBi typ @ 14.25 GHz  
 Rx 41.2 dBi typ @ 11.2 GHz

## G/T

Ku: . . . . . 11.20 GHz = 19.4 dBK  
 (assumes LNB 60dB gain 0.7dB NF)

## Cross Polarisation Isolation

Boresight. . . . . >35 dB  
 Within 1dB contour . . . . . >32 dB

## Port to Port Isolation

Ku: . Tx/Rx 40dB (110 dB incl filter)  
 Rx / Tx 30 dB

## Weights

Antenna . . . . . 98 Kg (215 lbs)

## Temperature

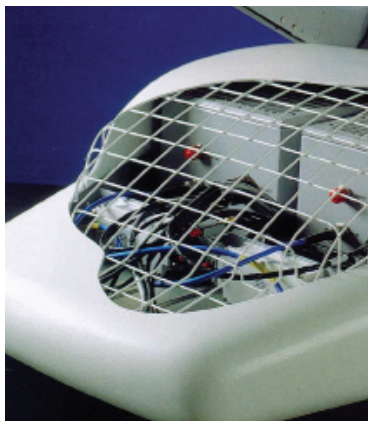
Operational: . . . . . -20°C to +60°C  
 (-4°F to 140°F)  
 Transport: . . . . . -40°C to +70°C  
 (-40°F to 158°F)

## Windspeed

Operational: . . . . . 21 m/s (47 mph)  
 Degraded . . . . . 28 m/s (63 mph)  
 Survival: . . . . . 50 m/s (112 mph)

## Humidity

0 to 100% RH



Two HPAs located within the antenna assembly

