

NewSwift 240

2.4m Compact Intergrated Satellite Terminal

The NewSwift HD 2.4m antenna is a light weight roof mounted drive away antenna designed to meet the highest standards of reliability and functionality for today's broadcast and military market. A highly customisable and lightweight antenna, the 2.4m

Newswift can be specified as either a single or three piece carbon fibre reflector and is capable of being mounted on a wide range of SNG vehicles. All three motorised axis work simultaneously to allow rapid on air time of less than five minutes.

The 2.4m Newswift is available as a C, X, Ku, DBS and Ka band systems, sporting quick field-changeable feed cartridges that provide greater flexibility to users around the world. Power amplifiers and electronics are protected in the removable weatherproof housing mounted close to the feed to minimise waveguide loss.



Key Features

- Reflector available in either a single or 3 piece manual/motorised configuration
- 5 mins to air
- Full 3 axis simultaneous motorisation
- Eutelsat, Intelsat & Arabsat compliant
- GPS based auto satellite acquisition option
- Tracking option with beacon receiver
- Designed to work with the ACU5000 series antenna controller

Typical Applications

- Satellite News-gathering
- Secure Military Communications
- First on Scene Broadcast
- Emergency Services
- Disaster Recovery



SPECIFICATIONS

C-Band

Frequency

- Tx Frequency Band 5.85-6.65 GHz (Option 6.725 - 7.025 GHz)
- Rx Frequency Band 3.4-4.2 GHz (Option 4.5 - 4.8 GHz)

Gain

- TX Gain 42.1 dBi @ 6.25 GHz

G/T

- 3.8 GHz 16.3 = dB/K (Assumes LNB 60 dB gain 0.5 dB NF)

Polarisation

- Polarisation Tx – RHCP or LHCP configurable
- Rx – Orthogonal to Tx
- Linear (Option)
- Axial Ratio (CP) <1.3dB (Tx)
- Cross Polar isolation -30 dB

Port to Port Isolation

- Tx/Rx 40dB (110 dB inc filter)
- Rx/Tx 30dB

X-Band

Frequency

- Tx Frequency Band 7.9-8.4 GHz
- Rx Frequency Band 7.25-7.75 GHz

Gain

- TX Gain 43.6 dBi @ 8.15 GHz

G/T

- 7.5GHz = 22.5 dB/K (Assumes LNB 50 dB gain 0.8 dB NF)

Polarisation

- Polarisation Tx – RHCP or LHCP configurable
- Rx – Orthogonal to Tx
- Axial Ratio <2dB (Tx), <1.21dB (Rx)

Port to Port Isolation

- Tx/Rx 20dB (100 dB inc filter)
- Rx/Tx 20dB

Ku-Band

Frequency

- Tx Frequency Band 13.75 – 14.5GHz
- Rx Frequency Bands (GHz) 10.7-12.75

Gain

- TX Gain 48.8 dBi @ 14.25 GHz

G/T

- 11.7GHz 26.0 dB/K (Assumes LNB 60 dB gain 0.7 dB NF)

Polarisation

- Polarisation Linear H/V Tx Orthogonal to Rx
- Cross polar isolation -35dB

Port to Port Isolation

- Tx/Rx 40dB (110 dB inc filter)
- Rx/Tx 30dB

DBS-Band

Frequency

- Tx Frequency Band 17.3-18.1 GHz (Option 17.3 – 18.4GHz)
- Rx Frequency Band 10.70 - 12.75 GHz

Gain

- TX Gain 51.2 dB @ 17.85 GHz

G/T

- 11.20 GHz = 25.4 dB/K (Assumes LNB 60 dB gain 0.7 dB NF)

Polarisation

- Polarisation Linear H/V Tx Orthogonal to Rx
- Cross polar isolation -35dB

Port to Port Isolation

- Tx/Rx 40dB (110 dB inc filter)
- Rx/Tx 30dB

Ka-Band

Frequency

- Tx Frequency Band 29.5-31 GHz (Option 27– 29.5GHz)
- Rx Frequency Band 20.2-21.2 GHz (Option 18.2GHz – 20.2GHz)

Gain

- TX Gain 55.5 dBi @ 28.75 GHz

G/T

- 20.7GHz = 28.8 dB/K (Assumes LNB 55 dB gain 1.6 dB NF)

Polarisation

- Polarisation Tx – RHCP or LHCP configurable
- Rx – Orthogonal to Tx
- Linear (Option)
- Axial Ratio <1.0dB (Tx), 1.5dB (Rx) dB

Port to Port Isolation

- Tx/Rx 35dB (110 dB inc filter)
- Rx/Tx 35dB

Common Specification

Power Requirements

- 90 - 264V AC (supplied with external half rack width PSU)

Standards

- MIL-STD-188-164B
- EUTELSAT EESS-02

- INTELSAT IESS-601

- ETSI EN 301.358
- ITU-R S.465.5 and S.580-6

- FCC 25.209

Physical Specification

Elevation Adjustment

- 6° to 95°

Azimuth Adjustment

- +/- 180°

Polarisation Adjustment

- linear +/- 90°, circular none

Platform Mount

- Elevation over Azimuth

Configuration

- Prime Focus

Feed Type

- Offset

Stowed Dimension

- Length: 3150mm
- Width: 1675mm
- Height: 660mm

Weight

- 220kg

ITAR Status

- ITAR Free

Environmental Specification

Operating Temperature

- -30°C to +60°C

Transport Temperature

- -40°C to +70°C

Humidity

- 0 - 100%

Operating Wind Speed

- 75 KPH

Degraded Wind Speed

- 100 KPH

Deployed Survival Wind Speed

- 115 KPH

Stowed Survival Wind Speed

- 180 KPH

