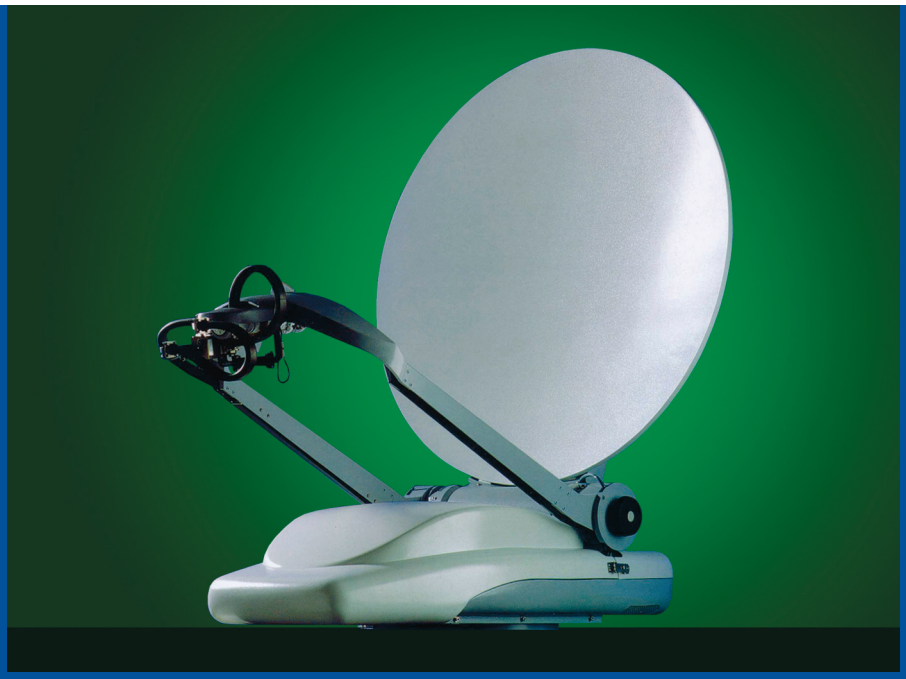
‘NEWSWIFT’ 0.9m Ku Band Motorised Antenna

- The ‘NewSwift 90Ku’ motorised antenna system is a highly compact integrated satellite terminal designed for rapid deployment. Featuring a specially shaped offset fed antenna manufactured in carbon fibre, the ‘NewSwift’ unique design can also house a redundant/phase combined RF package, mounted within the antenna assembly.

- Rapid deployment
- Full 3 axis control, includes 360° azimuth range
- C, Ku, DBS and X band feeds available
- GPS based auto satellite acquisition package available
- 800 City database controller
- Tracking option with beacon receiver
- Fully remote controllable
- Intelsat type approved



VISLINK COMMUNICATIONS

Specification

Type
Offset fed

Diameter
90 centimetres

Configuration
Prime focus

Mount
Elevation over azimuth

Frequency
Port 1: Tx 12.75 to 14.5 GHz
Rx 10.95 to 12.75 GHz

Port 2: Rx 10.95 to 12.75 GHz
Tx 12.75 to 14.5 GHz

Gain
Tx: 40.1 dBi min. @ 14.0 GHz
(40.5 dBi typ.)

Rx: 38.0 dBi min. @ 10.95 GHz
(38.5 dBi typ.)

Off-axis gain
Tx: 23-25 log θ for $1 < \theta < 48^\circ$
-10 dBi for $48 < \theta < 180^\circ$
Rx: 26-25 log θ for $1 < \theta < 48^\circ$
-10 dBi for $48 < \theta < 180^\circ$

Polarisation type
Linear orthogonal

Cross polar isolation
› -35 dB rel. co-polar gain within -1 dB contour

VSWR
Tx: 1.2:1
Rx: 1.3:1

Port/port isolation
Tx / Rx: 40 dB (110 dB incl. filter)
Rx / Tx: 30 dB

Pointing stability
‹0.5 dB

Waveguide flanges
WR 75 / R120 flanges

Antenna position control
Full 3-axis motor control with manual override mechanism

Azimuth adjustment
360°

Elevation adjustment
6 to 91°

Polarisation adjustment
$\pm$ 90°
(with H/V waveguide switch)

Antenna control unit
Serial remote interface

'one touch' stow & deploy

fast / med / slow motor drive system

Simultaneous positional feedback of Az. / El. / Pol. axes with true elevation reading from calibrated inclinometer

Options
GPS based auto satellite acquisition package

H/V polarisation switch

X-axis waveguide kit

Rotary joint for azimuth axis

Transmit reject filter

3 port feed

4 port feed

Issue A

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