

'NEWSWIFT' 1.8m Motorized Antenna

Available in C, X, Ku, DBS and Ka band

- The 'NewSwift 180' motorized 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, X, Ku, DBS and Ka band feeds available
- GPS based auto satellite acquisition package available
- 800 City database controller
- Tracking option with beacon receiver
- Fully remote controllable



Specification

Type Offset fed	DBS: 11.20GHz = 23.0dBK (Assumes LNB 60dB Gain 0.7dB NF)	Antenna position control Full 3-axis motor control with manual override mechanism
Diameter 180 centimetres	Ka: 19.70GHz = 25.6dBK (Assumes LNB 55dB Gain 1.6dB NF)	Azimuth adjustment 360°
Configuration Prime focus	Off-axis gain meets requirements of: STANAG 4484 INTELSAT IEES-601 EUTELSAT EESS-400 MIL STD 188-164A (as applicable)	Elevation adjustment 6 to 91°
Mount Elevation over azimuth		Polarization adjustment ± 90° (with H/V waveguide switch)
Frequency	Polarization type	Antenna control unit Serial remote interface
C: Tx 5.85 to 6.65 GHz Rx 3.4 to 4.2 GHz (option Tx 6.725 to 7.025 GHz Rx 4.5 to 4.8 GHz)	C: Linear or Circular X: Circular Ku: Linear DBS: Linear Ka: Linear or Circular	'one touch' stow & deploy
X: Tx 7.9 to 8.4 GHz Rx 7.25 to 7.75 GHz	Cross polar isolation > -35 dB rel. co-polar gain within -1 dB contour	fast / med /slow motor drive system
Ku: Tx 13.75 to 14.5 GHz (option from 12.75 GHz) Rx 10.7 to 12.75 GHz	Vswr	Simultaneous positional feedback of Az. / El. / Pol. axes with true elevation reading from calibrated inclinometer
DBS: Tx 17.3 to 18.1 GHz (Option to 18.4 GHz) Rx 10.7 to 12.75 GHz	C: Tx: 1.2:1 Rx: 1.3:1	Options GPS based auto satellite acquisition package
Ka: Tx 27.5 to 30 GHz Rx 18.2 to 20.2 GHz or Tx 30 to 31 GHz Rx 20.2 to 21.2 GHz	X: Tx: 1.4:1 Rx: 1.35:1	H/V polarization switch
Gain	Ku: Tx: 1.2:1 Rx: 1.3:1	X-axis waveguide kit
C: Tx 39.6 dBi typ. @ 6.25 GHz Rx 35.6 dBi typ. @ 3.95 GHz	DBS: Tx: 1.3:1 Rx: 1.5:1	Rotary joint for azimuth axis
X: Tx 41.9 dBi typ. @ 8.15 GHz Rx 41.1 dBi typ. @ 7.4 GHz	Ka: Tx: 1.3:1 Rx: 1.3:1	Transmit reject filter
Ku: Tx 46.8 dBi typ. @ 14.25 GHz Rx 44.7 dBi typ. @ 11.2 GHz	Port/port isolation	3 port feed
DBS: Tx 48.7 dBi typ. @ 17.85 GHz Rx 44.7 dBi typ. @ 11.2 GHz	C: Tx / Rx: 40 dB (110 dB incl. filter) Rx / Tx: 30 dB	4 port feed
Ka: Tx 52.9 dBi typ. @ 28.75 GHz Rx 49.6 dBi typ. @ 19.7 GHz	X: Tx / Rx: 20 dB (100 dB incl. filter) Rx / Tx: 20 dB	
G/T	Ku: Tx / Rx: 40 dB (110 dB incl. filter) Rx / Tx: 30 dB	
C: 3.95GHz = 16.0dBK (Assumes LNB 60dB Gain 0.3dB NF)	DBS: Tx / Rx: 40 dB (110 dB incl. filter) Rx / Tx: 30 dB	
X: 7.40GHz = 18.8dBK (Assumes LNA 50dB Gain 0.8dB NF)	Pointing stability <0.5 dB	
KU: 11.20GHz = 23.0dBK (Assumes LNB 60dB Gain 0.7dB NF)		

These specifications are accurate at the time of issue but may be subject to change and will not form part of any contract.

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