

# 'ADVENT FLYDRIVE 150' Motorized Flyaway Antenna - Available in C, X, Ku, DBS and Ka band

- The 'Flydrive' 1.5m antenna is a compact fully lightweight, motorized satellite terminal designed for rapid deployment. The antenna can be used either as a traditional flyaway or as a semi-permanent vehicle mounted terminal that can be fitted to most roof racks using standard fittings. Electronics are available in single thread, power combined or 1:1 configurations.
- IATA weight compliant in three flight cases
- Full 3 axis motorized control with manual backup
- C, X, Ku, DBS and Ka band feeds available.
- Satellite auto acquisition and tracking packages available
- Easily deployed by a single user
- Can be used as a flyaway or temporary vehicle mounted antenna using standard roof rack fittings
- Drive Control Unit housed within main antenna case
- Combines with compact half rack 5000 series system electronics



# Specification

## Diameter

1.5m (59 inches)

## Configuration

Offset fed

## Mount

Elevation over azimuth

## Frequency

**C:** Tx 5.85 to 6.65 GHz  
Rx 3.4 to 4.2 GHz  
or Tx 6.725 to 7.025 GHz  
Rx 4.5 to 4.8 GHz

**X:** Tx 7.9 to 8.4 GHz  
Rx 7.25 to 7.75 GHz

**Ku:** Tx 13.75 to 14.5 GHz  
(option from 12.75 GHz)  
Rx 10.70 to 12.75 GHz

**DBS:** Tx 17.3 to 18.1 GHz  
(Option to 18.4 GHz)  
Rx 10.70 to 12.75 GHz

**Ka:** Tx 27.5 to 30.0 GHz  
(option 30.0 to 31.0 GHz)  
Rx 18.2 to 21.2 GHz

## Gain

**C:** Tx 38.0 dBi typ. @ 6.25 GHz  
Rx 34.0 dBi typ. @ 3.95 GHz

**X:** Tx 40.3 dBi typ. @ 8.15 GHz  
Rx 39.5 dBi typ. @ 7.4 GHz

**Ku:** Tx 45.2 dBi typ. @ 14.25 GHz  
Rx 43.1 dBi typ. @ 11.2 GHz

**DBS:** Tx 47.2 dBi typ. @ 17.85 GHz  
Rx 43.1 dBi typ. @ 11.2 GHz

**Ka:** Tx 53.1 dBi typ. @ 28.75 GHz  
Rx 48.0 dBi typ. @ 19.7 GHz

## G/T

**C:** 3.95 GHz = 14.0 dBK  
(assumes LNA 50dB gain 0.8dB NF)

**X:** 7.40GHz = 17.3 dBK  
(Assumes LNA 50dB Gain 0.8dB NF)

**KU:** 11.20GHz = 21.4 dBK  
(Assumes LNB 60dB Gain 0.7dB NF)

**DBS:** 11.20GHz = 21.4 dBK  
(Assumes LNB 60dB Gain 0.7dB NF)

**Ka:** 19.70GHz = 24.0 dBK  
(Assumes LNB 55dB Gain 1.6dB NF)

## Off-axis gain meets requirements of:

STANAG 4484  
INTELSAT IESS-601  
EUTELSAT EESS-400  
MIL STD 188-164A  
(as applicable)

## Polarization type

**C:** Circular or Linear  
**X:** Circular or Linear  
**Ku:** Linear  
**DBS:** Linear  
**Ka:** Circular or Linear

## Cross polar isolation

> -35 dB rel. co-polar gain within -1 dB contour

## Vswr

**C:** Tx: 1.2:1  
Rx: 1.3:1

**X:** Tx: 1.4:1  
Rx: 1.35:1

**Ku:** Tx: 1.2:1  
Rx: 1.3:1

**DBS:** Tx: 1.3:1  
Rx: 1.5:1

**Ka:** Tx: 1.3:1  
Rx: 1.3:1

## Port/port isolation

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

**X:** Tx / Rx: 20 dB (100 dB incl. filter)  
Rx / Tx: 20 dB

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

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

## Antenna position control

Full 3-axis motor control with manual override mechanism

## Azimuth adjustment

360°

## Elevation adjustment

6 to 95°

## Polarization adjustment

± 90°

## 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

X-axis waveguide kit

Rotary joint for azimuth axis

Transmit reject filter

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

Issue B - October 2006

## US Sales:

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