



Features

- Intelsat Compliant
- Multi-Band Capable
- Multiple Integration Options
- Compact Packaging
- Superior Stability
- Excellent Reliability
- Minimal Maintenance
- Less than 15 min Assembly Time
- Captive Hardware
- Could be outfitted with IPOINT™ controller for pointing assistance and accuracy.

Overview

The 1.2 Meter Non-Motorized Flyaway Antenna from Advantech Wireless is highly portable, compact, lightweight, and can be assembled by one person in less than 15 minutes. The antenna features a 2 or 4 piece segmented glass fiber reinforced reflector with compact pedestal and is designed to be value priced while providing exceptional performance in a lightweight package. The elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user when pointing and peaking on a satellite. The antenna packs in 2 ruggedized shipping cases.

In addition, the antenna is designed to meet International performance specifications for commercial or military applications. The antenna can be upgraded to use the IPOINT™ controller which aids the user in pointing and peaking the antenna on the satellite. Multiple feed configurations and paint schemes are also readily available.

PRODUCT FEATURES & SPECIFICATIONS

Technical Specifications

Electrical Specifications										
	2 Port C Band Linear Feed		2 Port C Band Circular Feed		2 Port C Band (Insat) Linear Feed		2 Port X Band Circular		2 Port Cross Pol Ku Band Linear / Standard Feed	
	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx
Frequency (Ghz)	3.625-4.20	5.85-6.425	3.625-4.20	5.85-6.425	4.5 – 4.8	6.725 – 7.025	7.25-7.75	7.9-8.4	10.70-12.75	13.75-14.5
Gain (Midband, dBi)	31.9	35.9	31.9	35.9	33.6	37	37.2	37.8	41.7	43.2
Noise Temperature (°K)										
10 deg El	45		54		48		79		45	
20 deg El	40		47		42		61		31	
Axial Ratio			3.0 dB	2.3dB			1.5dB	1.5dB		
Cross Pol										
On Axis	-30 dB	-30 dB	-15.3 dB	-17.5 dB	-30 dB	-30 dB	-21.3 dB	-21.3 dB	-30 dB	-30 dB
In 1 dB countour	-26 dB	-26 dB	-15.3 dB	-17.5 dB	-26 dB	-26 dB	-21.3 dB	-21.3 dB	-30 dB	-30 dB
Sidelobe Compliances	IESS 601 Std G		IESS 601 Std G			Meets ITU 580		Meets ITU 580		Meets ITU 580
VSWR	1.50:1	1.30:1	1.50:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.50:1	1.30:1
Isolation										
Tx/Rx	-60 dB	0 dBm input	-60 dB	0 dBm input	-70 dB	0 dBm input	-110 dB	0 dBm input	-110 dB	0 dBm input
Rx/Tx	0 dBm input	-50 dB	0 dBm input	-50 dB	0 dBm input	-30 dB	0 dBm input	-110 dB	0 dBm input	-35 dB

Mechanical / Environmental Specifications

Reflector	1.2 meters (47.2 in) Glass Fiber Reinforced Polyester
Reflector Configuration	2 or 4 Piece Segmented Single Offset
Antenna Travel	
Azimuth	360° continuous with fine adjust
Elevation	0 - 90° of reflector bore sight
Polarization	± 90°
Packaging (2 Cases)	
Pedestal Case (Pelican Style)	37.5" x 27.5" x 14.5" (100 lbs)
Reflector Case	30" x 27" x 17" (80 lbs) – 4 piece option 51" x 31.5" x 13.5" (95 lbs) – 2 piece option
Temperature	
Operational	-30 to 60°C (-22 – 140°F)
Survival	-40 to 70°C (-40 – 158°F)
Winds	
Operational	30 mph Gusting to 45 mph (48 kph G 72 kph)
Survival (tied down, any position)	60 mph
Survival (tied down, stowed above 85 deg el.)	80 mph
Integration	
Feedboom Mounted ¹	30 lbs
Rain	
Operational	4 in/h (10 cm/h)
Survival	6 in/h (15 cm/h)
Relative Humidity	0 -100%
Solar Radiation	360 btu/h/ft ² (1000 Kcal/h/m ²)
Radial Ice (survival)	1 in (25.4 mm)
Corrosive Atmosphere	As encountered in coastal and/or industrial areas

¹ Dependent on mounting position relative to elevation axis

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Ref.: PB-NONMTFL-1.2M-01-13155