

SML 80FA

0.8 m Flyaway Antenna



Satmission Model SML 80FA flyaway antenna is highly portable and designed to meet IATA weight and dimension requirements for checked baggage. The antennas feature a 6 or 8 piece segmented carbon fiber composite reflector. Assembly time is less than 15 minutes. The elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user when pointing and peaking on a satellite. The antennas are designed to meet international performance specifications for multiple applications. X, Ku, and Ka Band feed and packaging configurations are available.



- Intelsat and Eutelsat Compliant
- Multi-Band X, Ku or Ka band Frequencies
- Multiple Integration Options
- One case including Ku or Ka feed
- Backpack option
- 80cm 6 pcs. reflector
- 100cm 8 pcs. reflector
- Lightweight and Stiff
- Excellent Reliability
- Minimal Maintenance

Technical Specifications

<i>Electrical Specifications</i>	2 Port X Band Circular		2 Port Cross Pol Ku Band Linear		2 Port Cross Pol Ka Band Circular Polarization	
	Rx	Tx	Rx	Tx	Rx	Tx
	Frequency (GHz)	7.25 - 7.75	7.9 - 8.4	10.95 - 12.75	13.75 - 14.5	19.2 - 21.2
Gain (Midband, dBi) (80 cm)	33.5	34.3	37.7	39.2	42.0	45.2
Gain (Midband, dBi) (1 M)	35.3	36.0	39.5	41.1	43.7	47.1
Typ. Noise Temperature (°K)						
10 deg El	80		79		155	
20 deg El	72		70		120	
Axial Ratio	1.21 dB	2.0 dB			1.5 dB	1.0 dB
Cross Pol (std)						
On Axis	-23 dB	-18.7 dB	-35 dB	-35 dB	-21.3 dB	-24.8 dB
in 1 dB BW	-23 dB	-18.7 dB	-35 dB	-35 dB	-21.3 dB	-24.8 dB
Sidelobe Compliances	188-164A		ITU 580-6		188-164A	
VSWR	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1
Isolation						
Tx/Rx	-110 dB	0 dBm input	-85 dB	0 dBm input	-85 dB	0 dBm input
Rx/Tx	0 dBm input	-110 dB	0 dBm input	-35 dB	0 dBm input	-70 dB

<i>Mechanical / Environmental Specifications</i>	
Reflector	80 cm & 1 M Carbon Fiber
Reflector Configuration	80 cm - 6 Piece, 1 M - 8 Piece Symmetrical
Antenna Travel	
Azimuth	+/-180° continuous with fine adjust
Elevation	5 - 90° of reflector bore sight
Polarization	± 90°
Packaging (Soft / Backpack Optional)	1 Case - Includes Ku or Ka Feed
Case (Compression Molded, Ku Config)	26.5" x 20.5" x 15" (36 lb / 16.4 Kg)
Backpack option	4 Pounds (fits in Case)
Temperature	
Operational	-30 to 60°C (-22 - 140°F)
Survival	-40 to 70°C (-40 - 158°F)
Winds	
Operational (tied down)	30 mph Gusting to 40 mph (48 kph G 64 kph)
Survival (tied down, any position)	60 mph

Note: Specifications subject to change without notice

Satmission AB
 Bultenvägen 5
 S-95261 Kalix, Sweden
 Phone: +46 923 137 10
 E-mail: sales@satmission.com
 Web: www.satmission.com