



1.8m Flyaway Terminals: 1800FA Series

Antenna					
	Aperture	1.8 meter effective			
	Motion	motorized two axis, elevation over azimuth			
	Travel range	azimuth $\pm 25^\circ$ from centerline, 360° range by moving centerline; elevation 0 - 90°			
	Positioning	manual & automatic step/program/ephemeris tracking; L-band tracking rcvr.			
	Satellite acquisition	automatic			
	Polarization C-band	circular & linear cross-pol; linear co-pol optional			
	Polarization Ku-band	linear cross-pol; linear co-pol optional			
	Polarization X-band	circular; RHCP tx, LHCP rx reversible			
	Polarization Ka-band	circular; RHCP or LHCP tx and rx (1 tx port, 2 rx ports)			
	Certifications	ARSTRAT/DISA X and Ka-band; Airbus/Astrium X-band			
	Type Approval	GVF/Intelsat; IA108A00 (C-band); IA107A00 (Ku-band)			
RF Characteristics					
	Frequency Bands	C	X	Ku	Ka
	TX (GHz)	5.850 – 6.650	7.9 – 8.4	13.75 – 14.5	30.0 – 31.0
	RX (GHz)	3.400 – 4.200	7.25 – 7.75	10.95 – 12.75	20.2 – 21.2
	Max. eirp (dBW)	57.0	59.5	62.5	66.0
		(100W BUC)	(100W BUC)	(70W BUC)	(40W BUC)
	G/T (dB/K, 10 elev)	15.5	20.5	23.5	26.0
Monitor & Control					
	Platform/software	PC operated Windows-Based Global Satcom proprietary M&C software			
	M&C points	antenna controller, RF/IF equipment, satellite modem			
	Operating configurations	local or remote up to 300 feet			
User Interfaces					
		tx/rx L-band interface with BUC/LNB for satellite modem			
		tx/rx carrier monitors; L-band, type N connectors			
		RS-485 & RS-232 PC access to monitor & control system			
Deployment					
	Setup time	less than 30 minutes with two trained technicians			
	Frequency band change	less than 10 minutes			
	Tools	tools not required			
Power					
	External source	100W BUC: 90-265 VAC single phase 47-63 Hz 750 VA; antenna controller: 90-264 VAC single phase 47-63 Hz 200 VA			
Environmental					
	Operating temperature	-40° to +60°C ambient, with 360 BTU/ft ² /hour solar loading			
	Storage temperature	-50° to 71°C			
	Relative humidity	100%			
	Rain	2 inches per hour			
	Ice	2 inch accumulation on exposed surfaces			
	Atmospheric conditions	salt, sand, & pollutants as encountered in coastal & industrial locations			
	Wind	operational to 45 mph, gusting to 60 mph with restraining weight			