



## 3.8m Flyaway Terminals: 3800FA Series

### Antenna

Aperture	3.8 meter effective
Motion	motorized two axis, elevation over azimuth
Travel range	azimuth $\pm 20$ degrees; elevation 10 to 85 degrees
Positioning	manual & automatic step/program/ephemeris tracking; L-band tracking rcvr.
Satellite acquisition	automatic
Polarization C-band	circular or linear
Polarization Ku-band	linear cross-pol or linear co-pol
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	Airbus/Astrium X-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)	67.0	68.0	70.5	72.0
	(250W BUC)	(100W BUC)	(100W BUC)	(40W BUC)
G/T (dB/K, 10° elev.)	22.0	28.0	29.5	32.0

### Monitor & Control

Architecture	PC-based system
Software	Windows-based proprietary M&C software
Operating configurations	local or remote up to 300 feet
M&C points	antenna controller, RF/IF equipment, satellite modem

### 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 2 hours with two trained technicians
Frequency band change	less than 10 minutes
Tools	tools not required

### Power

External source	250W BUC: 105-125 VAC single phase 47-63 Hz 1500 VA; antenna controller: 90-264 VAC single phase 47-63 Hz 200 VA
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### Environmental

Operating temperature	-40° to +60°C ambient, with 360 BTU/ft <sup>2</sup> /hour solar loading
Storage temperature	-50° to 65°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; survival 85 mph with antenna stowed with restraining weight