



0.6m Backpack Terminals: 600FA Series

Antenna		
Aperture	0.6 meter effective	
Motion	hand cranks; two axis, elevation over azimuth	
Travel range	azimuth $\pm 12^{\circ}$ from centerline, 360 $^{\circ}$ by moving centerline; elevation 0 to 90 $^{\circ}$	
Positioning	manual	
Satellite acquisition	manual	
RF Characteristics		
Frequency bands	Ku	Ka
TX (GHz)	13.75 – 14.5	30.0 – 31.0
RX (GHz)	10.95 – 12.75	20.2 – 21.2
EIRP (dBW)	41.0 @ 13.75GHz (3W GaN BUC)	49.0 @ 30.5 GHz (4W GaN BUC)
G/T (dB/K, 10 $^{\circ}$ elev.)	14.5@11.85 GHz	16.5@20.7 GHz
Feed ports	1 tx; 1 rx	1 tx; 2 rx
Polarization	linear tx opposite to rx hand crank adj.	circular tx RHCP rx LHCP and RHCP reversible
IF: block L-Band (MHz)	tx 950-1700 rx 950-1750	1000-2000
Deployment		
Setup time	less than 10 minutes	
Tools	tools not required	
Modem		
Type	Global SATCOM TCP/IP; integrated iDirect e850mp	
User interface	comm: ethernet port; maintenance: RS 232 port	
Monitor	receive L-band sample (type N)	
Displays	e850mp iSight displays	
Power		
Source	battery & charger unit	
Battery type	single BB-2590; 24V configuration	
Battery run time	2 – 4 hours	
Environmental		
Temperature	-20 $^{\circ}$ to +55 $^{\circ}$ C operating; -50 $^{\circ}$ to 65 $^{\circ}$ C storage	
Relative humidity	100%	
Rain	4 inches per hour	
Wind: non-anchored	operational to 10 mph	
Wind: anchored	operational to 45 mph; survival 60 mph	
Transport		
Packing	compartmentalized re-useable cloth backpack; custom cases can be built to user requirements with user equipment included; dimensions: 26 x18 x 9 inches (h w d); weight 48 lbs.	