

# MULTIBAND FLYAWAY

TEXTIRON Systems



- Single Multiband feed provides simultaneous frequency band coverage in one terminal
  - Dual-band (C/Ku or X/Ka) and Quad-band (C/Ku and X/Ka) configurations available
- Low cross-pol, high-efficiency antenna systems
- Composite reflector with or without motorization kit
- Transit case mounted multi-band electronics suite
- Quad-band terminal configuration fits into 20 transit cases
- Meets DSCS, Intelsat, Eutelsat requirements
  - Certifications: Intelsat H3 (C-Band) and E1 (Ku band); Americom GS; DSCS
- Full monitor and control software suite available
- Optional Tracking system available

## Flyaway Satellite Communications Terminal

The terminal is designed to provide worldwide, continuous full-duplex data communications in a compact light weight rugged flyaway package. The system is designed to provide two simultaneous carriers on two separate frequency bands per satellite capability, C and Ku band or X and Ka band.

# CONTINUOUS FULL-DUPLEX DATA COMMUNICATIONS

<u>Specifications</u>				
	C-BAND	X-BAND	Ku-BAND	Ka-BAND
Receive GHz	3.40-4.20	7.25-7.75	10.95-12.75	20.20-21.20
Transmit GHz	5.85-6.65	7.90-8.40	13.70-14.50	30.00-31.00
Receive Gain	38.0 dBi	43.5 dBi	47.2 dBi	52.0 dBi
Transmit Gain	41.0 dBi	44.0 dBi	48.7 dBi	54.0 dBi
System G/T (LNA Temp)	18 dB/K (30K)	22 dB/K (45K)	25 dB/K (65K)	27.5 dB/K (120K)
EIRP (HPA Power)	61 dBW (100W)	64 dBW (100W)	67 dBW (70W)	74 dBW (100W)
Axial Ratio				
• Linear Polarization	C and Ku:	> 30 dB		
• Circular Polarization	C,X, and Ka:	< 1.0 dB		
Wind	Operational 30 MPH, Gusts to 45 MPH Survival 60 MPH, Gusts to 75 MPH			

The antenna consists of a carbon fiber composite reflector and aluminum support structure. This structure is light weight but provides an extremely stiff support with high performance under wind loading stresses. The antenna system is supplied with 2-separate feeds for worldwide operation. The C/Ku-Band feed is a high performance, multi-band feed capable of operation in C and Ku band simultaneously. The feed provides 2 port Ku-Band operation and 4-port C-Band operation. The C-Band portion can be configured for Linear or circular operation by quick removal of the polarizer section. The X/Ka-Band feed is a high performance multi-band feed capable of simultaneous operation in the military X and Ka bands. This feed provides two-port circular polarization (with an optional 4-port configuration) in X-Band and four-port circular polarization in Ka-Band.

## Tomorrow's Communications Today!

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