

ECHO LINK

Airborne Telemetry Instrumentation System



Aerocross Systems

TRACKING ANTENNA

Configuration	3 ft Diameter Composite Reflector Offset Fed Non-orthogonal Roll-Theta Mount
Swept Diameter	40 in
RX Frequency	2200 to 2400 MHz
Tracking Technique	Single Channel Monopulse
Gain (2200 MHz)	> 22.5 dB
G/T (2200 MHz)	> 4.5 dB/°K
Beamwidth (3 dB)	11° Nominal
Polarization	Simultaneous RHCP and LHCP
Axial Ratio	< 2.0 dB
VSWR	< 2.0:1
Velocity	> 20°/sec
Acceleration	> 40°/sec/sec
Roll/Theta Travel	Continuous/180°
Control	Standard Local ACUs Remote Digital ACUs
Weight	< 90 lbs
Power	28 VDC Nominal (24 to 32 VDC)



TELEMETRY FRONT END

RX Frequency	2200 to 2400 MHz
TX Frequency	1450 to 1550 MHz
RX Noise Figure	Better than 6 dB
TX Power	10W
Modulation	FM
Coding	IRIG 106 PCM
Maximum Data Rate	10 Mbps
IF Bandwidth	0.5 MHz to 20 MHz

