

UPLINK Systems

FlyAway Mobile-Uplink Systems (2.4m) C-Band



Features

- Excellent Value -- Better Value and Lower Operating Costs Than Any Competing Uplink Systems
- Portable -- Air Craft Baggage Shippable
- Fast Response -- Dependable, Reliable Alignment, Set Up and Operation
- Rugged -- Designed For Harsh Environments
- Fast Deployment -- Can Be Installed by Only One Person
- Easy Operation -- Easy Front Access to All the System's Input's, Outputs and Monitoring Ports
- Universal System -- System Accommodates World Voltages and Color Standards
- Reliability -- Our Systems are 100% Field Tested

Applications

News Agencies, Universities, Corporations, Religious Institutions, Any Entity that Needs Fast and Temporary Satellite Access

Excellent Value, Rugged, Reliable Uplink System

ATCi introduces FLY AWAY Mobile-Uplink System, a totally new, cost-effective concept in C Band portable systems for quick, dependable satellite communication response. The ATCi Fly Away Mobile-Uplink System is a complete C Band portable satellite terminal system capable of uplinking any video content over satellite.

Complete Fly Away mobile-Uplink System includes: C TX/RX antenna, SSPA, Up-converter, modulator, encoder, multiplexer, IRD, access panel, complete integration and Spectrum Analyzer test unit. All for a very economical price.

FLY AWAY Mobile-Uplink System Takes Lightweight and Convenience to a Whole New Level

The portable system consists of 7 boxes, 6 of which hold the antenna (see picture) and the seventh box houses the electronic equipment. In addition to its superior performance, the antenna system is lightweight with minimum parts for fast deployment. The system's electronics is housed in a rugged portable rack with shock mounts and wheels (removable) for protection and ease of movement both onsite and offsite. Just hookup your video and audio source to the front panel, direct your antenna and start broadcasting!

Packages customized per customer requirements.

Specifications: Fly Away Mobile - Uplink Systems

Antenna Basic Features

- 2.4m Antenna
- Self Leveling Feet for Uneven Surfaces
- Custom-designed Cases for Easy Transportation
- C Band
- Feed Interface: WR137 or N-Type coax.
- Sturdy Boom Accommodates Many Outdoor Units
- Preassembled Quadpod Base Mount with Pull Pins
- 20 Minute Setup
- Socket Drive-Adaptor for rapid-adjust
- Hand-wheel for fine-tuning azimuth and elevation

RF and Encoding System (Electronics in Rack)

- Frequency range: C-Band 5.85-6.425 GHz
- RF Power output: 200 Watts
- Modulator scheme: QPSK
- Maximum data rate: 17.5 Mbps
- FEC: 1/2, 3/4, 5/6, 7/8.
- MPEG-2_DVB-S
- Video Format: NTSC and PAL
- Video Input: Analog composite or Digital SDI
- Closed Caption: Supported

Monitoring System

The following test Points are available:

- LNB output
- Modulator: L Band Output
- Transmitter: C Band Output @ 40 dB Attenuation
- IRD: Analog and ASI Output

RF SPECIFICATIONS

C-Band
 Frequency in GHz
 Midband Gain (Rx/Tx)
 Antenna Noise
 at 30° Elevation
 Typical G/T @ 30° EL 3.912 GHz
 Clear Horizon w/ 50K LNA
 Cross Pol Isolation on Axis (4 port)
 with 1 dB Beamwidth
 Return Loss

Linear Single Optic

Receive	Transmit
3.40 - 4.20	5.7 - 6.725
38.2dBi	42.6dBi
	35 K
	19.0 dB/K
30.0 dB	35.0 dB
22.0 dB	26.0 dB
17.7 dB	19.0 dB

Mechanical Data

Antenna Optics	Single Offset
Mount Type	Elevation over Azimuth Quadpod
Elevation Adjustment	0° to 90° Continuous Fine Adjustment
Azimuth Adjustment	± 30° Fine, 360° Continuous

Environmental Data

Wind Loading	45 mph 72 km/h Operational (With Ballast or Anchors)	75 mph 121 km/h Survival (With Ballast or Anchors)
Temperature	-40° to 140°F	-40° to 60°C
Rain	.5 inches /hour	1.3 cm /hour
Solar Radiation	360 BTU/h/ft ² (1000Kcal/h/m) ²	

Packaging Dimensions

(L x W x H)

CASE	CONTENTS	CASE SIZE	CASE
1	Leg Assembly	64" x 24" x 7"	99 lbs
2	Lower Mount Asm.	30" x 23" x 17"	90 lbs
3	Ref. Hub Assembly	53" x 41" x 27.5"	189 lbs
4	Radial Beams/ Feed Support	64" x 24" x 16.5"	130 lbs
5	Panels	58" x 33" x 12"	143 lbs
6	Panels	53" x 36" x 12"	129 lbs
7	Electronics	95" x 70" x 55"	150 lbs
		7 cases Total	930 lbs