

Mobile-Link

ATCi's Portable Uplink Systems



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

Cellular Phone Companies, Government and Military Communications, Remote Business Applications, Emergency Field Operations

Excellent Value, Rugged, Reliable Uplink System

ATCi introduces Mobile-Link, a totally new, cost-effective concept in C & Ku-Band portable systems for quick, dependable satellite communication response. The ATCi Mobile-Link System is a complete C or Ku-Band portable satellite terminal system capable of broadcast quality MPEG-2 video.

Complete Mobile-Link package includes: Transmit/Receive Antenna, Transmitter, Modulator, Encoder, Upconverter, Cases, Complete Integration and optional Spectrum Analyzer Test Unit.

Mobile-Link Takes Lightweight and Convenience to a Whole New Level

The portable system consists of 3 boxes, 2 of which hold the antenna and the third box houses the electronic equipment. In addition to it's 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!

Typical Mobile-Link Uplink Portable System Package*

- 1.8 M Tx/Rx, Tripod Az/EI Mount Fly-Away Antenna with 2 Port Linear C or Ku-Band Feed
- ATCi 40 Watt C or Ku-Band Rack Mount Transmitter
- Satellite Rack Mount Upconverter
- MPEG-2 Encoder with ASI Out
- DVB Modulator
- 6u Rack Mount Operating Case
- Misc. Integration Materials, Cabling and Connectors

**Packages customized per customer requirements.*

Specifications: FlyAway Antenna Systems Summary

1.8 C/Ku-Band Offset Tx/Rx Antenna Specifications						2.4 C/Ku-Band Offset Tx/Rx Antenna Specifications					
GENERAL						GENERAL					
Type	1.8 Meter Air Transportable (Baggage)					Type	2.4 Meter (13 Piece)Air Transportable (Baggage)				
Mount Type	Tripod El/Az Carrier					Mount Type	Tripod El/Az Carrier				
Feed Type	Multi-Mode Prime Focus					Feed Type	Multi-Mode Prime Focus				
Polarization Control	Manual Remote					Polarization Control	Manual Remote				
RF						RF					
Operating Frequency						Operating Frequency					
Ku-Band	14.0 - 14.5 GHz					Ku-Band	14.0 - 14.5 GHz				10.95 - 12.75 GHz
Gain @ midband	46.7 dB					Gain @ midband	49.2 dB				47.6 dB
3dB Beamwidth	0.9°					3dB Beamwidth	0.61°				0.70°
VSWR (max)	1.3:1					VSWR (max)	1.3:1				1.3:1
Feed Flange	WR-75					Feed Flange	WR-75F				WR-75F
Cross Pol, On-Axis	30dB Min					Cross Pol, On-Axis	30dB Min				30dB Min
Transmit Power	750 W CW (Max)					Transmit Power	1KW (Max)				n/a
C-Band	5.9 - 6.4 GHz					C-Band	5.85 - 6.4 GHz				3.65 - 4.2 GHz
Gain @ midband	35.5 dB					Gain @ midband	42.0 dB				38.0 dB
3dB Beamwidth	1.8°					3dB Beamwidth	1.5°				2.3°
VSWR (max)	1.3:1					VSWR (max)	1.3:1				1.3:1
Feed Flange	CPR-137G					Feed Flange	CPR-137G				PR-229G
Cross Pol, On-Axis	30dB Min					Cross Pol, On-Axis	30dB Min				30dB Min
Transmit Power	1KW (Max)					Transmit Power	1KW (Max)				n/a
Sidelobe Envelope						Sidelobe Envelope					
Antenna Noise Temperature	CCIR, INTELSA					Antenna Noise Temperature	CCIR, INTELSA				
3.65-4.2 GHz	28° K @ 20° EI					3.65-4.2 GHz	30° K @ 20° EI				
10.95-12.75 GHz	37° K @ 20° EI					10.95-12.75 GHz	37° K @ 20° EI				
Environmental						Environmental					
Operating Wind	50 mph					Operating Wind	30 mph				
Survival Wind	75 mph					Survival Wind	60 mph				
Operating Temperature	-40 to 130° F					Operating Temperature	-40 to 130 F				
Shipping Information						Shipping Information					
(3 Cases)	L	x	W	x	H	TOTAL	WEIGHT				
Panels	33"		21"		26"	80"	115 lbs				
Hub & Parts	25¾"		24¼"		22½"	72½"	100 lbs				
Mount/Carrier	52"		15¾"		12¼"	80"	115 lbs				
(6 Cases)	L	x	W	x	H	TOTAL	WEIGHT				
Panels (2 Cases)	28.0"		40.5"		11.5"	80"	100 lbs				
Hub	33.0"		33.0"		14.0"	80"	100 lbs				
Mount	59.0"		10.5"		10.5"	80"	95 lbs				
Mount	49.0"		15.5"		15.5"	80"	95 lbs				
Mount	71.0"		4.5"		4.5"	80"	0 lbs				

35" INMARSAT Collapsible Antenna Specifications											
GENERAL DESCRIPTION			ELECTRICAL								
Mechanical (Mount Option)	Antenna pointing 0° to 360° azimuth. Bubble level reference is provided. Angular scales provided for pointing. Antenna may be removed from housing for service and can be ordered separately					Frequency Range	1530-1647.5 MHz				
Polarization	Right-Hand Circular					Gain	20.6 dBic (decibels referred to a circular isotrope), minimum (at feed connector)				
Connector	SMA Female or Type 'N'					Axial Ratio	2dB, on axis, maximum				
ENVIRONMENTAL						Operating Power	60 watts CW				
Operating Humidity	100%					VSWR	1.6 maximum				
Operating Temperature	-40° to +160°F					Sidelobe Envelope requirements	Meets INSMARSAT SES				
Operating Wind	30 MPH										
Net Weights	Reflector					8 lbs					
	Antenna w/ mount					35 lbs					
	Carrying Bag					6 lbs					