

# ALTAIR DUO

## C-BAND UPLINK SYSTEM



**Low Cost  
2-Channel  
Video Uplink  
Package!**

ATCi introduces the Altair Duo-C, a complete pre-tested system with exceptional characteristics for an efficient and economical video transmission.

### **Applications:**

- All-inclusive system
- Supports 2 video channels in MCPC format
- C-band
- In-stock or relatively short delivery time
- Low cost
- Universal. PAL/NTSC. 90-260 VAC
- Short installation time. 3 - 4 days
- Spectrum analyzer included

**Everything included in this stand alone C-Band video uplink for 2 Channels!**

**Just plug in your source!**

Altair C-Band System is an efficient, reliable using all field-proven components uplink system. The package includes the antenna and all the related indoor and outdoor electronics that will handle encoding, modulation, transmission as well as monitoring of your satellite signal. We've done all the pre-testing and evaluation so that you can be assured of round-the-clock quality of this low cost system.



# ALTAIR Duo-C System Specs

## 1. 3.7M C-Band Antenna, Tx/Rx

1.1	Operation Freq:	3.625 - 4.2 Ghz
1.2	MidBand Gain:	Tx/Rx: 44.7/40.9dBm
1.3	Polarization:	Linear or Circular
1.4	Feed Type:	Tx/Rx Crosspol
1.5	VSWR:	1:3:1 Max.
1.6	Power Hand Cap.	500W
1.7	Base Type:	Penetrating or Non-Penetrating mount

## 2. ATZC-0060 Solid State Power Amplifier (SSPA)

2.1	Output Power@ P1dB:	60 Watts
2.2	Gain dB min:	70 dB
2.3	Freq. Range:	5.850 - 6.425 Ghz
2.4	Input Freq. Range:	950 - 1525 Mhz
2.5	IF input Interface:	N Connector
2.6	RF Output Interface:	CPR137
2.7	Type:	Outdoor

## 3. MPEG2 Video Encoder (2)

3.1	Type:	Rack Mount
3.2	Standard:	NTSC/PAL
3.3	Output Rate:	Up to 50 Mbps
3.4	Video Rate:	8 Mbps
3.5	Audio Ch:	2 Stereo or 4 Mono Ch.
3.6	Video Ch:	1 Video Ch.
3.7	Video Input	SDI/Composite

## 4. Multiplexer

4.1	Type:	Rack Mount
4.2	Standard:	NTSC/PAL
4.3	ASI Outputs:	54 Mbps
4.4	ASI Inputs:	BNC
4.5	Byte Mode:	188/204

## 5. L Band DVB-S Modulator

5.1	Operation	
	Frequency:	950 - 1750Mhz
5.2	Date Rate:	1.4 - 13.8Mbps
5.3	Symbol Rate:	10.000 Msps
5.4	Modulation:	QPSK
5.5	FEC:	1/2, 2/3, 3/4, 5/6, 7/8
5.6	Interface Type:	ASI per DVB
5.7	Power:	-5 to -25 dBm

## 6. ATCi FL10

5.1	Waveforms:	Sine
6.2	Input:	950 - 2150 Mhz
6.3	Accuracy:	0.02%
6.4	Sine Wave Output:	0 - 4.5 Vpp
6.5	Output Imp:	75 Ohms
6.6	Level:	0 dBm

## 7. Digital Receiver

7.1	Input Frequency:	950 - 2150Mhz
7.2	Composite	
	Video Out:	BNC connect
7.3	ASI Out:	BNC188/204
7.4	Demodulation:	QPSK
7.5	Input Level	-65 / -25dBm
7.6	LNB Power:	13/18V
7.7	Symbol Rate:	2.0/45 Msps

## 8. Digital and Analog ATCi Spectrum Analyzer

8.1	Tuning:	from 5-862Mhz/ 900-2150Mhz
8.2	Digital	
	Measurements:	BER, MER, NM, C/N
8.3	Carriers:	QPSK, DVBS, DVBS2
8.6	Symbol Rate:	2 - 45 Msps
8.7	Decoder:	DV, QPSK, 8PSK

9.	Integration	
10.	Installation	