



# Satellite Systems Corporation

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# Model 5425

## 70 MHz to L-Band Upconverter



The Model 5425 dual synthesized 70 MHz to L-band Upconverter and is designed for use with block up converters. 10 MHz reference and 24 VDC power are multiplexed on the output to power the BUC RF Head. The frequency stability and phase noise characteristics of the Model 5420 Up Converter are suitable for fractional T-1 digital SCPC Carriers.

### SPECIFICATIONS

Input Frequency . . . . .	52 - 88 MHz
Output Frequency . . . . .	950 - 1450 MHz
Frequency Sense . . . . .	(non-inverted, filtered)
Frequency tuning . . . . .	1 MHz steps
Input impedance . . . . .	75 ohm
Output impedance . . . . .	50 ohm
Input Level . . . . .	-25 dBm
Output Level . . . . .	0 dBm max, -29 dBm min
Gain . . . . .	25 dB maximum
Level stability . . . . .	± 2 dB maximum (in any 36 MHz band)
L.O. Reference . . . . .	10 MHz internal
Frequency stability . . . . .	1.0 ppm
Phase noise . . . . .	> 75dB/Hz @ 1 kHz from carrier
Noise Figure . . . . .	<14 dB
Third Order Distortion . . . . .	>40 dBc for Two Carriers at -10 dBm Output Power
IF level adjust . . . . .	Local or Remote
Sum Alarm output . . . . .	Relay, Form C
Input connector . . . . .	BNC - Female, 75 ohm
Output connector . . . . .	Type N - Female, 50 ohm
Prime Input Power . . . . .	90 - 260 VAC, 47 - 63 Hz, Auto-sensing, 130 Watts Max
Optional DC Power . . . . .	Contact factory for availability
Dimensions . . . . .	1 RU, 19" x 16" x 1.75"
Weight . . . . .	14 lbs
Alarm output . . . . .	Form-C relay
Operating temperature . . . . .	-10° to +50° C
Power supplied to RF Head . . . . .	24 volts DC, 65 Watts
Reference to RF Head . . . . .	10 MHz, -5 dB nominal
Monitor and Control Connector . . . . .	DB-9, Female
Monitor and Control Interface (must be specified when ordering) . . . . .	RS-232 or RS-485

### Other Frequency Ranges and Gain Configurations are available.

Please see <http://www.satsyscorp.com> for more information.



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