

AnaCom's RackSat series of rack-mounted up- and down-converters have all of the familiar features of AnaCom's outdoor converters in a compact, rack-mountable form. Ideally suited for SCPC, MCPC, DAMA, TDMA, and VoIP applications and designed to interface with any L-band modem, AnaCom RackSat converters may be used in a wide variety of communication networks.

## Features

- ✓ Available in upconverter and downconverter configurations.
- ✓ Superior phase noise
- ✓ Flexible, universal power supply and converter (protected from 0 volts through 250 volts AC)
- ✓ Variable Gain Up-Converter
- ✓ Internal 10 MHz reference
- ✓ Summary fault-status reporting including overheating, and converter failure. Robust 1+1 Redundant operation using AnaCom's Protection Switch.
- ✓ Built in test feature for improved maintainability and reduced dependence on external test equipment

## Built-In Test Facility

To improve and simplify maintenance routines, an external terminal (or computer) can be connected to monitor a number of critical parameters without use of additional test equipment. These include:

- ✓ Power supply voltages
- ✓ TX/RX synthesizer loop voltages
- ✓ Internal Temperature
- ✓ Alarm Details
- ✓ Onboard microprocessor for automatic temperature and aging compensation

## Benefits

- ✓ A family of products with significant commonality minimizes demands for spares and training
- ✓ These converters are designed for a minimum of maintenance. Periodic scheduled maintenance is not required.
- ✓ Rack-mountable installation. (1U)

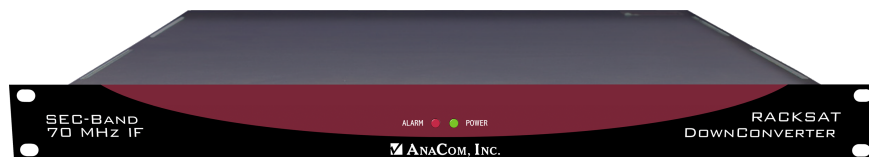
## Compact, Functional Design

The RackSat upconverter includes a 70 or 140 MHz to RF up-converter, and a universal power supply. The RackSat downconverter includes a 70 or 140 MHz to L-band down-converter, and a universal power supply.

All of these are contained in a simple rack-mountable package, which provides excellent reliability in a wide range of functions.

## Flexible Applications

- ✓ Rural Telecommunications expansion
- ✓ Industrial networking
- ✓ LAN and WAN extensions
- ✓ Emergency link restoration
- ✓ Remote surveillance
- ✓ Broadcast
- ✓ Data distribution and collection
- ✓ Point-of-sales systems
- ✓ Video teleconferencing
- ✓ Conventional voice traffic



# RackSat Converter (70 MHz or 140 MHz)

## SPECIFICATIONS

UPCONVERTER CHARACTERISTICS	C-Band Family		Ku-Band Family
	1 dB COMPRESSION POINT (dBm)	8 dBm	4 dBm
	TX GAIN	30 dB	30 dB
	TX GAIN RANGE	+6 / -20 dB variable in 1 dB steps via M&C	
	TX LEVEL FLATNESS	+/- 1.5 dBp-p max / 500 MHz	
	TX GAIN OVER TEMPERATURE	+/- 1.5 dB max	
	TX INPUT IF FREQUENCY	52 to 88 MHz (100 to 180 MHz optional)	
	TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)	
	TX INPUT IF LEVEL	-30 dBm for rated output with nominal gain	
	TX FREQUENCY STEP SIZE	1 MHz M&C controlled	(XC Band 500 KHz step size)
TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -90 dBc/Hz max @ 100KHz	-70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz	
SPURIOUS	-65 dBc max out of band		
TX OUTPUT FREQUENCY	EC = 5.850 to 6.425 GHz PC = 6.425 to 6.725 GHz XC = 6.725 to 7.025 GHz	SEC = 5.850 to 6.725 GHz RC = 5.975 to 6.475 GHz	Ku = 14.0 to 14.50 GHz SEKu = 13.75 to 14.50 GHz Eku = 13.75 to 14.25 GHz

DOWNCONVERTER CHARACTERISTICS	C-Band Family		Ku-Band Family	
	RX INPUT FREQUENCY	EC = 3.625 to 4.200 GHz PC = 3.400 to 3.640 GHz XC = 4.500 to 4.800 GHz	SEC = 3.400 to 4.200 GHz RC = 3.650 to 4.150 GHz	10.95 - 12.75 GHz
	RX GAIN	85 to 100 dB		
	RX OUTPUT IMPEDENCE	50 ohms (75 ohms optional)		
	RX FREQUENCY STEP SIZE	1 MHz (XC Band 500 KHz step size)		
RX OUTPUT FREQUENCY	52 to 88 MHz (100 to 180 MHz optional)			

SYSTEM	ALARM RELAYS	FORM C for Summary Alarm; Isolated
	POWER	100 to 250 VAC; 47 to 63 Hz optional 48V DC
	M&C	SNMP, HTTP, Telnet Ethernet, RS-232, RS-485

ENVIRONMENTAL	TEMPERATURE	-50 to +55°C operational -50 to +75°C storage
	HUMIDITY	95% at 45C
	ALTITUDE	6500 meters (21,500 ft) max
	VIBRATION	1.0 g random operational, 2.5 g random survival
	SHOCK	10 g operational, 40 g survival

POWER & DIMENSIONS	TYPICAL POWER CONSUMPTION	50 VA
	PRIME POWER RECOMMENDATION	100 VAC
	WEIGHT	9 lbs. / 4 kg.
	UNIT SIZE:	19" x 13.875" x 1.719" [1U] 48.26 x 35.24 x 43.66mm

\*all specifications subject to change

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