

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, downconverter, or dual configurations. (dual configuration EC and SEC-band only)
- ✓ Superior phase noise
- ✓ Flexible, universal power supply and convertor (protected from 0 volts through 250 volts AC)
- ✓ Variable Gain Block Up-Converter
- ✓ Part of a family of products with significant commonality
- ✓ Internal 10 MHz reference (Optional)
- ✓ 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 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

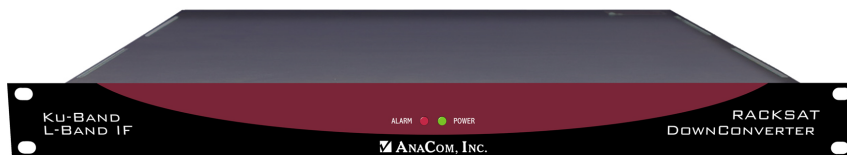
The RackSat upconverter includes an L-band to RF up-converter, and a universal power supply.

The RackSat downconverter includes an RF 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 conferencing
- ✓ Conventional voice traffic



**RackSat Converter
(L-Band)**

SPECIFICATIONS

		EC-Band	SEC-Band	LMI-EC Band
C-Band UPCONVERTER CHARACTERISTICS	1 dB COMPRESSION POINT	8 dBm		
	TX NOMINAL GAIN	25 dB		
	TX GAIN RANGE	13 dB variable in 1 dB steps via M&C		
	TX LEVEL FLATNESS	+/- 2 dBp-p max / 500 MHz		
	TX GAIN OVER TEMPERATURE	+/- 2dB max		
	TX INPUT IF FREQUENCY	950 to 1525 MHz	950 to 1825 MHz	950 to 1525 MHz
	TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)		
	TX INPUT IF LEVEL	-25 dBm typical		
	TX L.O. FREQUENCY	4900 MHz		4775 MHz
	TX OUTPUT FREQUENCY	5.850 to 6.425 GHz	5.850 to 6.725 GHz	5.725 to 6.425 GHz
	TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -80 dBc/Hz max @ 10KHz		-70 dBc/Hz max @ 1KHz -90 dBc/Hz max @ 100KHz
SPURIOUS	-55 dBc max out of band			
C-Band DOWNCONVERTER	RX INPUT FREQUENCY	3.625 to 4.200 GHz	3.400 to 4.200 GHz	3.375 to 3.950 GHz
	RX L.O. FREQUENCY	5150 MHz		
	RX GAIN	20 dB typical		
	RX OUTPUT IMPEDENCE	50 ohms (75 ohms optional)		
		Ku-Band	SEKU-Band	
Ku-Band UPCONVERTER CHARACTERISTICS	1 dB COMPRESSION POINT	4 dBm		
	TX NOMINAL GAIN	25 dB		
	TX GAIN RANGE	13 dB variable in 1 dB steps via M&C		
	TX LEVEL FLATNESS	+/- 2 dBp-p max / 500 MHz		
	TX GAIN OVER TEMPERATURE	+/- 2dB max		
	TX INPUT IF FREQUENCY	950 to 1450 MHz	950 to 1700 MHz	
	TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)		
	TX INPUT IF LEVEL	-25 dBm typical		
	TX L.O. FREQUENCY	13050 MHz	12800 MHz	
	TX OUTPUT FREQUENCY	14.0 to 14.50 GHz	13.75 to 14.50 GHz	
TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -80 dBc/Hz max @ 10KHz		-70 dBc/Hz max @ 1KHz -90 dBc/Hz max @ 100KHz	
SPURIOUS	-55 dBc max out of band			
ENVIRONMENTAL	TEMPERATURE	-10 to +55°C operational -50 to +75°C storage		
	HUMIDITY	95% at 45C		
	ALTITUDE	6500 meters (21,325 ft)		
	VIBRATION	1.0 g random operational, 2.5 g random survival		
	SHOCK	10 g operational, 40 g survival		
POWER & DIMENSIONS	TYPICAL POWER CONSUMPTION	80 VA		
	PRIME POWER RECOMMENDATION	220 VAC		
	WEIGHT	9 lbs. / 4 kg.		
	UNIT SIZE:	19" x 13.875" x 1.719" (48.26 x 35.24 x 43.66) [1U]		

*all specifications subject to change

09/13/12

3888505



Phone: +1 408-519-2062 FAX: +1 408-519-2063
http://www.anacominc.com