

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

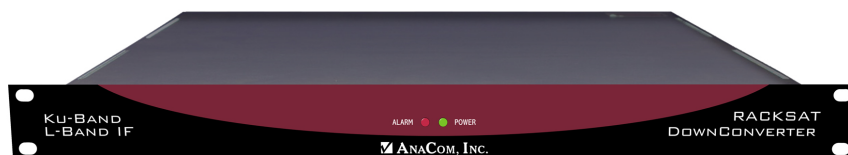
The RackSat upconverter includes an L-band to RF up-converter, and a universal power supply.

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 Series

SPECIFICATIONS

UPCONVERTER CHARACTERISTICS	C-Band Family		Ku-Band Family
	1 dB COMPRESSION POINT (dBm)	8 dBm	4 dBm
	TX GAIN	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	EC-Band = 950 to 1525 MHz SEC-Band = 950 to 1825 MHz LMI-EC Band = 950 to 1525 MHz	Ku-Band = 950 to 1450 MHz SEKu-Band = 950 to 1700 MHz
	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	
	TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -90 dBc/Hz max @ 100KHz	-70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz
	SPURIOUS	-55 dBc max out of band	
TX L.O. FREQUENCY	EC-Band = 4900 MHz SEC-Band = 4900 MHz LMI-EC Band = 4775 MHz	Ku-Band = 13050 MHz SEKu-Band = 12800 MHz	
TX OUTPUT FREQUENCY	EC-Band = 5.850 to 6.425 GHz SEC-Band = 5.850 to 6.725 GHz LMI-EC Band = 5.725 to 6.425 GHz	Ku-Band = 14.0 to 14.50 GHz SEKu-Band = 13.75 to 14.50 GHz	

DOWNCONVERTER CHARACTERISTICS	C-Band Only	
	RX INPUT FREQUENCY	EC-Band = 3.625 to 4.200 GHz SEC-Band = 3.400 to 4.200 GHz LMI-EC Band = 3.375 to 3.950 GHz
	RX GAIN	20dB typical
	RX OUTPUT IMPEDENCE	50 ohms (75 ohms optional)
	RX L.O.	5150 MHz
RX OUTPUT FREQUENCY	52 to 88 MHz	

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	-10 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	80 VA
	PRIME POWER RECOMMENDATION	220VAC
	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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