



C Band



EC SEC IC RC PC

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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 convertor (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

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



Benefits

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



	RackSat Converter	SPECIFICATIONS
	(70 MHz or 140 MHz)	C-Band family
	1 dB COMPRESSION POINT	8 dBm
S	TX NOMINAL GAIN	30 dB
STC	TX GAIN RANGE	+6 / -20 dB variable in 1 dB steps via M&C
ERIS	TX LEVEL FLATNESS	+/- 1.5 dBp-p max / 500 MHz
C-Band UPCONVERTER CHARACTERISTICS	TX GAIN OVER TEMPERATURE	+/- 1.5 dB max
	TX INPUT IF FREQUENCY	52 to 88 MHz (100 to 180 MHz optional)
	TX INPUTIFIMPEDANCE	50 ohms (75 ohms optional)
	TX INPUT IF LEVEL	-30 dBm for rated output with nominal gain
	TX OUTPUT FREQUENCY	EC = 5.850 to 6.425 GHz SEC = 5.850 to 6.725 GHz
Š		PC = 6.425 to 6.725 GHz
i d	TX FREQUENCY STEP SIZE	1 MHz (XC Band 500 KHz step size)
Ban	TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz
Ü		-80 dBc/Hz max @ 10KHz -90 dBc/Hz max @ 100KHz
	SPURIOUS	-65 dBc max out of band
	RX INPUT FREQUENCY	
RTER	RX INPUT FREQUENCY	EC = 3.625 to 4.200 GHz SEC = 3.400 to 4.200 GHz PC = 3.400 to 3.640 GHz RC = 3.650 to 4.150 GHz XC = 4.500 to 4.800 GHz
ANC	RX FREQUENCY STEP SIZE	1 MHz (XC Band 500 KHz step size)
C.Band DOWNCONVERTER	RX OUTPUT FREQUENCY	52 to 88 MHz (100 to 180 MHz optional)
20 20 20 20 20 20 20 20 20 20 20 20 20 2	RX GAIN	85 to 100 dB
C-Baı	RX OUTPUT IMPEDENCE	50 ohms (75 ohms optional)
	IX GOTT OT IMITEDLINCE	
	L. In Cournessian nour	Ku-Band family
ž	1 dB COMPRESSION POINT	4 dBm
RIS	TX NOMINAL GAIN	30 dB
Ku-Band UPCON VERTER CHARACTERISTICS	TX GAIN RANGE	+6 / -20 dB variable in 1 dB steps via M&C
ARA	TX LEVEL FLATNESS	+/- 1.5 dBp-p max / 500 MHz
₹.	TX GAIN OVER TEMPERATURE	+/- 1.5 dB max 52 to 88 MHz (100 to 180 MHz optional)
TER	TX INPUTIF FREQUENCY TX INPUTIF IMPEDANCE	52 to 88 MHz (100 to 180 MHz optional) 50 ohms (75 ohms optional)
VEF	TX INPUT IF IMPEDANCE TX INPUT IF LEVEL	
ON	TX OUTPUT FREQUENCY	-30 dBm for rated output with nominal gain Ku = 14.0 to 14.50 GHz Eku = 13.75 to 14.25 GHz SEKu = 13.75 to 14.50 GHz
ž	TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz
ana	IX PHASE NOISE	-80 dBc/Hz max @ 100Hz -90 dBc/Hz max @ 100KHz -90 dBc/Hz max @ 100KHz
(r-B	SPURIOUS	-65 dBc max out of band
Ku-Band DWNCONVERTER		
	RX INPUT FREQUENCY	10.95 - 12.75 GHz
	RX OUTPUT FREQUENCY	52 to 88 MHz (100 to 180 MHz optional)
	RX GAIN	20 to 45 dB
ă	RX OUTPUT IMPEDENCE	50 ohms (75 ohms optional)
AL	TEMPERATURE	-10 to +55°C operational
ENVIRONMENTAL		-50 to +75°C storage
	HUMIDITY	95% at 45C
õ	ALTITUDE	6500 meters (21,325 ft)
N/V	VIBRATION	1.0 g random operational, 2.5 g random survival
ũ	SHOCK	10 g operational, 40 g survival
S	TYPICAL POWER CONSUMPTION (VA)	50
NO.	PRIME POWER RECOMMENDATION	110/220 VAC 100W
NENS	WEIGHT	9 lbs. / 4 kg.
ਦ ਨੂੰ	HNIT CIZE:	10" v 12 075" v 1 710" (40 26 v 25 24 v 42 66) [1][]