

AnaCom's series of Rack-Mount 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, these Rack-Mount 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 converter (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 required.
- ✓ Rack-mountable installation. (1U)

Compact, Functional Design

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

The Rack-Mount 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



Rack-Mount Converter

SPECIFICATIONS

		EC-Band			SEC-Band			LMI-EC Band		
C-Band UP CONVERTER 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 1550 MHz			950 to 1700 MHz			950 to 1550 MHz		
	TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)								
	TX INPUT IF LEVEL	-25 dBm typical								
	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 DOWN CONVERTER	RX INPUT FREQUENCY	3.625 to 4.200 GHz			3.400 to 4.200 GHz			3.375 to 3.950 GHz		
	L.O. FREQUENCY	5150 MHz								
	RX GAIN	20 dB typical								
	RX OUTPUT IMPEDENCE	50 ohms (75 ohms optional)								
		Ku-Band				SEKU-Band				
Ku-Band UP CONVERTER 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	1200 to 1700 MHz				950 to 1700 MHz				
	TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)								
	TX INPUT IF LEVEL	-25 dBm typical								
	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									
Ku-Band DOWN CONVERTER	RX INPUT FREQUENCY	10.95 to 11.7 GHz	11.7 to 12.2 GHz	12.25 to 12.75 GHz	10.95 to 11.7 GHz	11.7 to 12.2 GHz	12.25 to 12.75 GHz			
	L.O. FREQUENCY	10.0 GHz	10.75 GHz	11.3 GHz	10.0 GHz	10.75 GHz	11.3 GHz			
	RX GAIN	20 dB typical								
	RX OUTPUT IMPEDENCE	50 ohms (75 ohms optional)								
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

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