

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

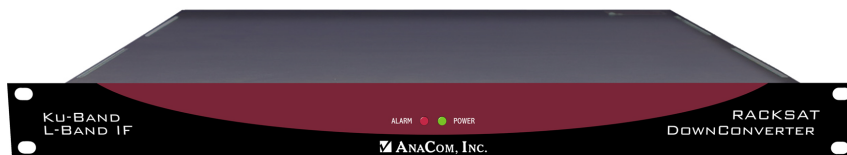
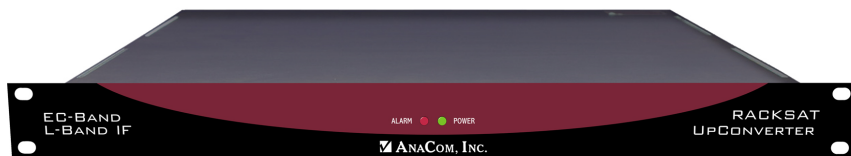
The RackSat upconverter includes an L-band to RF up-converter, and a universal power supply.

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 teleconferencing
- ✓ 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 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 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 |
| 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 | | |
| 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 | |
| Ku-Band DOWNCONVERTER | RX INPUT FREQUENCY | 13.75 to 14.50 GHz | 13.75 to 14.50 GHz | |
| | RX L.O. FREQUENCY | 13050 MHz | | |
| 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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