# M AnaCom, Inc ELSAT® - EC/SEC

## EC/SEC-Band VSAT Block Up-Converter 10, 20, 30, 40, 50, 60, 70, 80, 100, 125, 150, 180 and 200 WATTS

AnaCom's series of ELSAT® VSAT block upconverters (BUC) are designed for continuous outdoor duty in all types of environments

Ideally suited for SCPC, MCPC, DAMA, and VoIP applications. Designed to interface with any L-band modem, the ELSAT® VSAT BUC may be used in a wide variety of communication networks.

#### **Features**

- Superior phase noise
- Flexible, universal power supply driving PA and converter (protected from 0 volts through 250 volts AC)
- Fixed Gain Block Up-Converter
- This product joins a family of products with significant commonality
- Single enclosure for all models listed
- Internal 10 MHz reference
- Summary Fault Status available through a
  FORM C relay. Fault status includes
  overheating, PA voltage failure and
  converter failure. This feature allows for
  1+1 protected operation using our existing
  protection switch. *Note:* This feature will
  not show RX faults.

#### 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

#### Compact, Functional Design

The ELSAT® VSAT BUC includes an L-band up-converter and a solid-state power amplifier (PA), into a small, highly integrated out-door package (same dimensions as an AnaSat ODU of equivalent power), which provides excellent reliability in a wide range of environments and functions.

The only cabling required to the indoor equipment are the IF cables and AC power cables.

### Benefits

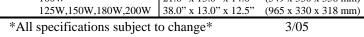
- A family of products with significant commonality minimizes demands for spares and training.
- The ELSAT® VSAT BUC are designed for a minimum of maintenance. Periodic scheduled maintenance is not required.
- Designed to be mounted on most antennas
- Simple installation.



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http://www.anacominc.com

ELSAT® - EC/SEC  TRANSMIT CHARACTERISTICS	SPECIFICATIONS													
	10W	20W	30W	40W	50W	60W	70W	80W	100W	125W	150W	180W	200W	
1 dB COMPRESSION POINT	40dBm	43dBm	44.8 dBm	46dBm	47dBm	47.8 dBm	48.5dBm	49dBm	50dBm	51dBm	51.8dBm	52.6dBm	53dBm	
TX GAIN (Fixed)	55 dB	58 dB	59.8 dB	61 dB	62 dB	62.8 dB	63.5 dB	64 dB	65 dB	66 dB	66.8 dB	67.6 dB	68 dB	
TX LEVEL FLATNES	6 dBp	p max	500 MH	z						•	•		•	
TX INPUT IF FREQUENCY	EC = 9	EC = 950 to 1,525 MHz; SEC = 950 to 1,750 MHz												
TX INPUT IF IMPEDANCE	50 ohr	50 ohms (75 ohms optional)												
TX INPUT IF LEVEL	-15 dl	-15 dBm max												
TX OUTPUT FREQUENCY	EC = :	EC = 5.850 to 6.425 GHz; SEC = 5.850 to 6.650 GHz												
TX PHASE NOISE	-70 dE -80 dE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz -90 dBc/Hz max @ 100MHz												
SPURIOUS	-50 dE	-50 dBc max, + - 500 Hz: - 45 dBc												
OPTIONAL REFERENCE														
Requirements	Provid	Provided on TX IF line by L-band modem												
FREQUENCY		10 MHz (sine-wave)												
INPUT POWER	-5 to +	-5 to +5 dBm (at input port)												
PHAISE NOISE	-125 dBc/Hz max @ 100Hz -135 dBc/Hz max @ 1KHz -140 dBc/Hz max @ 10KHz													
SYSTEM														
ALARM RELAYS	FORM	FORM C for Summary Alarm; Isolated												
POWER		100 to 250 VAC; 47 to 63 Hz												
ENVIRONMENTAL			· ·											
TEMPERATURE		-40 to +50°C operational -40 to +75°C storage												
ALTITUDE	10,000	10,000 ft (3,048 meters) max												
RAIN	20 inc	hes per	hour											
WIND	150 miles per hour													
VIBRATION	1.0 g	1.0 g random operational, 2.5 g random survival												
SHOCK	10 g	10 g operational, 40 g survival												
POWER & DIMENSIONS														
TYPICAL POWER CONSUMPTION PRIME POWER RECOMMENDATION		229VA 600VA			394VA 880VA	398VA 890VA	570VA 1150VA		762VA 1620VA	1071VA 2357VA	1071V A 2357VA	1399VA 3078VA	1399VA 3078VA	
WEIGHT		39 lbs. (18kg)	57 lbs. (26kg)	45 lbs. (21kg)		57 lbs. (26kg)	57 lbs. (26kg)	60lbs. (28kg)	75lbs. (34kg)	100lbs. (46kg)	100lbs. (46kg)	134lbs. (61kg)	134lbs. (61kg)	
TRANSCEIVER 10W SIZE 20W 40W 30W, 50W, 60W, 70W 80W 100W 125W 150W 180W 200W	21.6" x 9.0" x 11.6" (549 x 229 x 295 mm) 21.6" x 9.0" x 13.5" (549 x 229 x 343 mm) 21.6" x 9.0" x 14.0" (549 x 229 x 356 mm) 21.6" x 9.0" x 15.0" (549 x 229 x 381 mm) 21.6" x 9.0" x 16.0" (549 x 229 x 407 mm) 21.6" x 13.0" x 14.0" (549 x 330 x 356 mm) 38.0" x 13.0" x 12.5" (965 x 330 x 318 mm)													



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