

## EC/SEC-Band VSAT Block Up-Converter 10, 20, 30, 40, 50, 60, 70, 80, 100, 125, 150, 180, 200 and 400 WATTS

AnaCom's series of ELSAT® VSAT block up-converters (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 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.

# ELSAT<sup>®</sup> - EC/SEC

# SPECIFICATIONS

<b>TRANSMIT CHARACTERISTICS</b>	<b>10W</b>	<b>20W</b>	<b>30W</b>	<b>40W</b>	<b>50W</b>	<b>60W</b>	<b>70W</b>	<b>80W</b>	<b>100W</b>	<b>125W</b>	<b>150W</b>	<b>180W</b>	<b>200W</b>	<b>400W</b>
1 dB COMPRESSION POINT	40dBm	43dBm	44.8 dBm	46dBm	47dBm	47.8 dBm	48.5dBm	49dBm	50dBm	51dBm	51.8dBm	52.6dBm	53dBm	56dBm
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	87dB
TX LEVEL FLATNES (Fixed Temperature)	6 dBp-p max / 500 MHz 3 dBp-p max / 36 MHz													
TX INPUT IF FREQUENCY	EC = 950 to 1,450 MHz; SEC = 950 to 1,750 MHz													
TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)													
TX INPUT IF LEVEL	-15 dBm max													
TX OUTPUT FREQUENCY	EC = 5.850 to 6.425 GHz; SEC = 5.850 to 6.725 GHz													
TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz -90 dBc/Hz max @ 100MHz													
SPURIOUS	-50 dBc max, + - 500 Hz: - 45 dBc													
<b>OPTIONAL REFERENCE</b>														
Requirements	Provided on TX IF line by L-band modem													
FREQUENCY	10 MHz (sine-wave)													
INPUT POWER	-5 to +5 dBm (at input port)													
PHASE NOISE	-125 dBc/Hz max @ 100Hz -135 dBc/Hz max @ 1KHz -140 dBc/Hz max @ 10KHz													
<b>SYSTEM</b>														
ALARM RELAYS	FORM C for Summary Alarm; Isolated													
POWER	100 to 250 VAC; 47 to 63 Hz													
<b>ENVIRONMENTAL</b>														
TEMPERATURE	-40 to +50°C operational -40 to +75°C storage													
ALTITUDE	10,000 ft (3,048 meters) max													
RAIN	20 inches per hour													
WIND	150 miles per hour													
VIBRATION	1.0 g random operational, 2.5 g random survival													
SHOCK	10 g operational, 40 g survival													
<b>POWER &amp; DIMENSIONS</b>														
TYPICAL POWER CONSUMPTION	125VA	229VA	280VA	390VA	394VA	398VA	570VA	572VA	762VA	1179V	1179VA	1539VA	1539VA	2832VA
PRIME POWER RECOMMENDATION	340VA	600VA	735VA	870VA	880VA	890VA	1150VA	1200VA	1620VA	A 2357VA	2357VA	3078VA	3078VA	6230VA
WEIGHT	32 lbs. (15kg)	39 lbs. (18kg)	57 lbs. (28kg)	45 lbs. (21kg)	57 lbs. (28kg)	57 lbs. (28kg)	57 lbs. (28kg)	60lbs. (28kg)	75lbs. (34kg)	98lbs. (45kg)	98lbs. (45kg)	137lbs. (63kg)	137lbs. (63kg)	280lbs (127kg)
TRANSCEIVER SIZE	10W 21.6" x 9.0" x 11.6" (549 x 229 x 295 mm) 20W 21.6" x 9.0" x 13.5" (549 x 229 x 343 mm) 40W 21.6" x 9.0" x 14.0" (549 x 229 x 356 mm) 30W, 50W, 60W, 70W 21.6" x 9.0" x 15.0" (549 x 229 x 381 mm) 80W 21.6" x 9.0" x 16.0" (549 x 229 x 407 mm) 100W 21.6" x 13.0" x 14.0" (549 x 330 x 356 mm) 125W,150W,180W,200W 38.0" x 13.0" x 12.5" (965 x 330 x 318 mm) W 38.0" x 25.5" x 12.36" (965 x 648 x 314 mm) 400W													

\*all specifications subject to change\*

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