

## **Ku-Band VSAT Block Up-Converter** **8, 16, 20, 23, 25, 40, 50, 60, 80, 100 and 125 WATTS**

AnaCom's series of ELSAT<sup>®</sup> 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<sup>®</sup> 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 (Optional)
- 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<sup>®</sup> 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<sup>®</sup> 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> - Ku

## SPECIFICATIONS

<b>TRANSMIT CHARACTERISTICS</b>	<b>8W</b>	<b>16W</b>	<b>20W</b>	<b>23W</b>	<b>25W</b>	<b>40W</b>	<b>50W</b>	<b>60W</b>	<b>80W</b>	<b>100W</b>	<b>125W</b>
1 dB COMPRESSION POINT	39dBm	42dBm	43dBm	43.6dBm	44dBm	46dBm	47dBm	49dBm	49.75 dBm	50 dBm	51 dBm
TX GAIN (Fixed)	64 dB	67 dB	68 dB	68.6 dB	69 dB	71 dB	72 dB	74 dB	74.75 dB	75 dB	76 dB
TX LEVEL FLATNES	6 dBp-p max / 500 MHz										
TX INPUT IF FREQUENCY	Ku = 950 to 1,450 MHz										
TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)										
TX INPUT IF LEVEL	-25 dBm max										
TX OUTPUT FREQUENCY	Ku =14.0 to 14.50 GHz										
TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz -90 dBc/Hz max @ 100KHz -100 dBc/Hz max @ 1MHz										
SPURIOUS	-50 dBc max, + - 500 Hz: - 45 dBc										
<b>OPTIONAL REFERENCE</b>											
Requirements	Provided on TXIF 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	160VA	272VA	294VA	298VA	302VA	767VA	804VA	853VA	1429VA	1600VA	1644VA
PRIME POWER RECOMMENDATION	400VA	690VA	700VA	710VA	720VA	1690VA	1768VA	1876VA	3144VA	3520VA	3617VA
WEIGHT	28 lbs. (13 kg)	37 lbs. (17kg)	40 lbs. (18kg)	40 lbs. (18kg)	40 lbs. (18kg)	67 lbs. (31 kg)	67 lbs. (31 kg)	67lbs. (31kg)	125lbs. (57kg)	125lbs. (57kg)	125lbs. (57kg)
TRANSCEIVER - 8W	21.6" x 9.0" x 11.6" (549 x 229 x 295 mm)										
SIZE: - 16W, 20W, 23W, 25W	21.6" x 9.0" x 13.0" (549 x 229 x 330 mm)										
- 40W, 50W, 60W	21.6" x 13.0" x 13.6" (549 x 330 x 353 mm)										
- 80W, 100W, 125W	38.0" x 13.0" x 12.5" (965 x 330 x 318 mm)										

\*all specifications subject to change\*

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