✓ ANACOM ELSAT® - EC

EC-Band VSAT Block Up-Converter
10, 20, 30, 40, 50, 60, 70, 80 and 100 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 (protected from 0 volts through 250 volts AC)
- Fixed Fain Block Up-Converter
- This product joins a family of products with significant commonality
- Single enclosure for all models listed
- **Optional Item.** 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.
- **Optional Item.** 24V DC universal supply for converter operation provided internally.

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.

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SPECIFICATIONS

TRANSMIT CHARACTERISTICS	**10W**	**20W**	**30W**	**40W**	**50W**	**60W**	**70W**	**80W**	**100W**
1 dB COMPRESSION POINT	40dBm	43dBm	44.8 dBm	46dBm	47dBm	47.8 dBm	48.5dBm	49dBm	50 dBm
TX GAIN (Fixed)	75 dB	78 dB	79.8 dB	81 dB	82 dB	82 dB	83.5 dB	84 dB	81 dB
TX LEVEL FLATNES (Fixed Temperature)	5 dBp-p max / 500 MHz 3 dBp-p max / 36 MHz								
TX INPUT IF FREQUENCY	950 to 1,450 MHz								
TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)								
TX INPUT IF LEVEL	–35 dBm nominal								
TX OUTPUT FREQUENCY	5.850 to 6.425 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								
EXTERNAL REFERENCE									
Requirements	Provided on TXIF line by L-band modem								
FREQUENCY	10 MHz (sine-wave)								
INPUT POWER	-5 to +5 dBm (at input port)								
PHAISE NOISE	-125 dBc/Hz max @ 100Hz -135 dBc/Hz max @ 1KHz -140 dBc/Hz max @ 10KHz								
DC SUPPLY	15 to 24 Volts @ 38W max								
SYSTEM									
ALARM RELAYS	FORM C for Summary Alarm; Isolated								
POWER	100 to 250 VAC; 47 to 63 Hz								
ENVIRONMENTAL									
TEMPERATURE	-40 to +50°C operational -60 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								
POWER & DIMENSIONS									
TYPICAL POWER CONSUMPTION PRIME POWER RECOMMENDATION	125VA 340VA	229VA 600VA	280VA 735VA	390VA 870VA	394VA 880VA	398VA 890VA	570VA 1150VA	572VA 1200VA	762VA 1620VA
WEIGHT	32 lbs. (14.5kg)	39 lbs. (17.7kg)	57 lbs. (27.3kg)	45 lbs. (20.5kg)	57 lbs. (27.3kg)	57 lbs. (27.3kg)	57 lbs. (27.3kg)	60lbs. (27.3kg)	75lbs. (34.1kg)
TRANSCEIVER SIZE - 10W - 20W - 40W - 30W, 50W, 60W, 70W - 80W - 100W	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” (549 x 229 x 356 mm) 21.6” x 9.0” x 15” (549 x 229 x 381 mm) 21.6” x 9.0” x 16” (549 x 229 x 407 mm) 21.6” x 13.0” x 14” (549 x 330 x 356 mm)								

all specifications subject to change 6/04

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