

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 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 (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.

ELSAT® - EC/SEC

SPECIFICATIONS

TRANSMIT CHARACTERISTICS	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 MHz												
TX INPUT IF FREQUENCY	EC = 950 to 1,525 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 6.650 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												
OPTIONAL REFERENCE													
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												
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 -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												
POWER & DIMENSIONS													
TYPICAL POWER CONSUMPTION	125VA	229VA	280VA	390VA	394VA	398VA	570VA	572VA	762VA	1071VA	1071V	1399VA	1399VA
PRIME POWER RECOMMENDATION	340VA	600VA	735VA	870VA	880VA	890VA	1150VA	1200VA	1620VA	2357VA	A 2357VA	3078VA	3078VA
WEIGHT	32 lbs. (15kg)	39 lbs. (18kg)	57 lbs. (26kg)	45 lbs. (21kg)	57 lbs. (26kg)	57 lbs. (26kg)	57 lbs. (26kg)	60lbs. (28kg)	75lbs. (34kg)	100lbs. (46kg)	100lbs. (46kg)	134lbs. (61kg)	134lbs. (61kg)
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)											

All specifications subject to change

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