AnaSat®

Ku

0W to 125W

Ku

EKu

SEKu

AnaCom's series of Ku-band VSAT transceivers are available in transmitter output levels up to 125 Watts, in single or redundant configurations. These transceivers are ruggedly built for continuous outdoor duty in all types of environments. They are especially suitable for SCPC, MCPC, and DAMA applications.

The upconverter, downconverter, power amplifier, monitor and control and power supply are included in a single enclosure and the only cabling required to the indoor equipment are IF cables. The LNC connects to the transceiver with a single coaxial cable. An ovenized, high stability crystal oscillator is used to lock the TX and RX synthesizers. Additional temperature and aging compensation are provided by the onboard microprocessor

Features

- Built in test facilities for improved maintainability and reduced dependence on external test equipmentl
- ▼ No indoor equipment is needed
- Frequency agile radio equipment. Completely independent TX and RX frequency selection
- ▼ Superior phase noise
- Flexible, universal power supply

Built In Test Equipment

To improve and simplify maintenance routines, an external terminal (or computer) can be connected to monitor a number of critical parameters without use of additional test equipment. These include:

- ▼ Transmitter power output level
- TX and RX IF level
- Power supply voltages
- TX and RX synthesizer loop voltages
- ✓ Internal Temperature
- Alarm Details

Controllable functions from the terminal include:

- ✓ TX frequency and gain (ON/OFF feature)
- X RX frequency and gain (independent from TX)

Benefits

- "Last Touch" controls allow for remote configuration or local (manual) configuration
- ✓ Flash memory means that the transceiver always powers up with exactly the same operating conditions as when it lost power (or was turned off)
- Comprehensive maintenance features for operational effectiveness and minimum outages.
- Simple installation.

Comprehensive Monitor & Control

A powerful Monitor & Control feature allows you to monitor and control the transceiver on the same M&C bus with most indoor equipment such as modems and multiplexers. The Monitor & Control system can be used in combination with the unit's internal metering function to monitor operational parameters.

The M&C can be accessed remotely via-

Ethernet protocols:

Serial protocols:

Internal Webpage

✓ RS-232

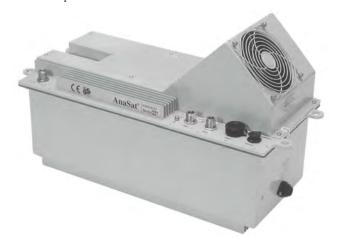
✓ Telnet ✓ SNMP

✓ RS-485✓ AnaCom Supervisor 10

✓ AnaCom Supervisor 10

Compact, Functional Design

The upconverter, power amplifier, monitor and control and power supply are included in a single enclosure. The only cabling required to the indoor equipment are IF and power. An optional ovenized, high stability crystal oscillator can be used to lock the TX synthesizer. Additional temperature and aging compensation are provided by an onboard microprocessor.



	AnaSat [®]	SPECIFICATIONS														
Ku-Band series		ow	2W	4W	8W	16W	20W	23W	25W	32W	40W	50W	60W	80W	100W	125W
	1 dB COMPRESSION POINT (dBm)	4	33	36	39	42	43	43.6	44	45	46	47	47.8	49	50	51
	TX GAIN	31	64	67	70	73	74	74.6	75	76	77	78	78.8	80	81	82
S	TX GAIN RANGE	20 dB variable in 1 dB steps via M&C														
ST	TX LEVEL FLATNESS	+/- 1.5 dBp-p max / 500 MHz														
ERI	TX GAIN OVER TEMPERATURE	+/- 1.5 dB max														
TRANSMIT CHARACTERISTICS	TX INPUT IF FREQUENCY	52 to 8	8 MHz	(op	tional 1	140 MHz	:)									
IRA	TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)														
7H.	TX INPUT IF LEVEL	-30 dBm for rated output with nominal gain														
17.0	TX OUTPUT FREQUENCY	Ku = 14.0 to 14.50 GHz														
IWS	TX FREQUENCY STEP SIZE	1 MHz M&C controlled														
Š	TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz														
TR)		-90 dBc/Hz max @ 100KHz -100 dBc/Hz max @ 1MHz														
	INTERMOD	-33 dB	c max (2	carrier	s, each	9dB bac	koff fror	n P1dB	rating)							
	SPURIOUS	-55 dB	c max o	ut of ba	nd											
v	RX INPUT FREQUENCY	10.95 -	12.75 G	iHz												
71C	RX FREQUENCY STEP SIZE	1 MHz	M&C co	ntrolled	t											
TIS	RX OUTPUT FREQUENCY	52 to 8														
₹AC	RX GAIN	75 to 1		M8	C conti	rolled										
HAF	RX NOISE FIGURE	2.0 dB (160K) MAX / Optional 1.4 dB (110K), 1.2 dB (90K), and 1.0 dB (80K)														
RCI	RX LINEARITY	-35 dBc intermod, MAX														
IVE	RX PHASE NOISE	-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz														
RECEIVER CHARACTISTICS		-90 dBc/Hz max @ 100KHz -100 dBc/Hz max @ 1MHz														
R	RX OUTPUT IMPEDENCE	50 ohn	ns (75 o	hms op	tional)											
Ni	ALARM RELAYS	FORM	C for Su	mmary	Alarm;	Isolated										
SYSTEM	POWER		250 VA				option									
S	M&C	SNMP,	HTTP, T	elnet		Etherne	t, RS-232	2, RS-48	5							
	TEMPERATURE	-50 to +55°C operational														
AL		-50 to +75°C storage														
LN:	HUMIDITY	95% at 45C														
IMI	ALTITUDE	6500 meters (21,500 ft) max														
ENVIRONMENTAL	RAIN	20 inches per hour														
VIE	WIND		les per l													
EN	VIBRATION	1.0 g random operational, 2.5 g random survival														
	SHOCK	10 g operational, 40 g survival														
	TYPICAL POWER CONSUMPTION (VA)	40	60	100	160	270	294	300	300	340	770	800	850	1430	1600	1640
SNC	PRIME POWER RECOMMENDATION	100	170	220	400	690	700	710	720	850	1700	1800	1900	3100	3500	3600
SIC	WEIGHT (lbs.)	22 10	26 12	27 12	28 13	38 17	44 20	44 20	44 20	41 19	67 30	67 30	67 30	123 56	132 60	145 66
POWER & DIMENSIONS	(kg.)			12		1			20	ן ו	30	30	50	30	1 00	00
IIQ.	TRANSCEIVER - 0W, 2W, 4W SIZE: - 8W	21.6" x 9.0" x 7" (549 x 229 x 178 mm) 21.6" x 9.0" x 9.4" (549 x 229 x 239 mm)														
R &	- 8W - 16W, 20W, 23W, 25W		9.0" x 9.4 9.0" x 10.			549 x 229 549 x 229										
WE	- 32W		9.0" x 10.		,	549 x 229		,								
PO	- 40W, 50W, 60W 21.6" x 13.0" x 11.2" (549 x 330 x 345 mm)															

-80W, 100W, 125W 38.0" x 12.75" x 12.4" (965 x 330 x 318 mm)
*all specifications subject to change 6/16/15 3887808

Phone: +1 408-519-2062 http://www.anacominc.com

FAX: +1 408-519-2063