AnaSat



0W to 200W

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✓ Telnet

✓ RS-232 ✓ RS-485

✓ SNMP

✓ 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	150W	200W	
TRANSMIT CHARACTERISTICS	1 dB COMPRESSION POINT (dBm)		4	33	36	39	42	43	43.6	44	45	46	47	47.8	49	50	51	51.8	53
	TX GAIN		31	64	67	70	73	74	74.6	75	76	77	78	78.8	80	81	82	82.8	84
	TX GAIN RANGE		20 dB variable in 1 dB steps via M&C																
	TX LEVEL FLATNESS		+/- 1	.5 dBp	-p max	(/ 500	MHz												
	TX GAIN OV	TX GAIN OVER TEMPERATURE		.5 dB n	nax														
	TX INPUT IF FREQUENCY		52 to	88 MH	Ηz	(opti	onal 14	40 MH:	z)	*					-		*	*	-
	TX INPUT IF IMPEDANCE		50 oł	nms		(75 o	hms o	ptiona	l)										
	TX INPUT IF LEVEL		-30 d	Bm fo	r rated	outpu	it with	nomir	nal gair	ì									
	TX OUTPUT FREQUENCY		Ku = 14.0 to 14.50 GHz Eku = 13.75 to 14.25 GHz SEKu = 13.75 to 14.50 GHz																
	TX FREQUENCY STEP SIZE		1 MHz M&C controlled																
	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																
	INTERMOD		-33 dBc max (2 carriers, each 9dB backoff from P1dB rating)																
	SPURIOUS		-55 dBc max out of band																
1	DV INDUT EDECLIENCY		40.05	- 40 -															
15	RX INPUT FREQUENCY		+	5 - 12.7															
RIS	RX FREQUENCY STEP SIZE		_	Iz M&C		olled													
RECEIVE CHARACTERISTICS	RX OUTPUT FREQUENCY RX GAIN		52 to 88 MHz																
	RX GAIN RX NOISE FIGURE		75 to 100 dB M&C controlled																
	RX LINEARITY		2.0 dB (160K) MAX / Optional 1.4 dB (110K), 1.2 dB (90K), and 1.0 dB (80K)																
	RX PHASE NOISE		-35 dBc intermod, MAX																
	NA FINASE INCISE		-60 dBc/Hz max @ 100Hz -70 dBc/Hz max @ 1KHz -80 dBc/Hz max @ 10KHz -90 dBc/Hz max @ 10KHz -100 dBc/Hz max @ 1MHz																
REC	RX OUTPUT IMPEDANCE			nms (7					00 45	c, 112 11	iax e								
N	ALARM REL	ALARM RELAYS		Л C for	Summ	nary Al	arm; Is	olated											
SYSTEM	POWER		100 to 250 VAC; 47 to 63 Hz optional 48V DC																
S	M&C		SNMI	P, HTTF	, Telne	t	Et	hernet	t, RS-23	32, RS-	485								
	TEMPERATURE		-50 to +55°C operational																
RONMENTAL			-50 to +75°C storage																
	HUMIDITY		95% at 45C																
	ALTITUDE		6500 meters (21,500 ft) max																
Į Š	RAIN		20 inches per hour																
Ž	WIND		150 miles per hour																
ENVI	VIBRATION		1.0 g random operational, 2.5 g random survival																
	SHOCK		10 g operational, 40 g survival																
			ow	2W	4W	8W	16W	20W	23W	25W	32W	40W	50W	60W	80W	100W	125W	150W	200W
VS	TYPICAL POWER CONSUMPTION (VA)		41	73	83	125	229	280	390	394	398	570	572	762	1179	1179	1539	1539	2832
	PRIME POWER RECOMMENDATION		100	150	220	340	600	730	870	880	890	1200	1200	1600	2400	2400	3100	3100	6200
OWER & DIMENSIONS	WEIGHT	(lbs.)	23	27	29	34	40	43	45	57	57	67	67	67	135	164	164	164	260
ENS	TDANCSEN (55	(kg.)	10	12	13	15	18	20	20	26	26	30	30	30	61	74	74	74	118
M	TRANSCEIVER	TRANSCEIVER - 0W, 2W, 4W SIZE: - 8W - 16W, 20W,23W, 25W - 32W		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)															
S D	JILL.						239 IIIII x 274 m												
ER							x 317 m												
Š	- 40W, 50W, 60W) x 285 r												

- 125W, 150W, 200W 38.0" x 12.75" x 12.4" (965 x 330 x 318 mm) 3887812 *all specifications subject to change 03/15/19



- 80W, 100W

21.6" x 13.0" x 12.2" (549 x 330 x 310 mm)

Fax: +1 408 519 2063