AnaCom, Inc.

www.anacominc.com

AnaSat® SSPA

C Band

EC SEC LMI-EC
IC RC PC

Ku Band

Ku EKu SEKu

AnaCom's series of AnaSat® SSPAs are designed for continuous outdoor duty in all types of environments. Ideally suited for SCPC, MCPC, DAMA, TDMA, and VoIP applications and designed to interface with a 0 dBm driver, the AnaSat® SSPA may be used in a wide variety of communication networks.

Features

- Superior phase noise
- Flexible, universal power supply driving PA and convertor (protected from 0 volts through 250 volts AC)
- Part of a family of products with significant commonality
- Single enclosure for all models listed
- Summary fault-status reporting including overheating, PA failure, and converter failure. Robust 1+1 Redundant operation using AnaCom's Protection Switch. (200W maximum)
- Built in test feature for improved maintainability and reduced dependence on external test equipment

Built-In Test Facility

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
- Power supply voltages
- Internal Temperature
- Alarm Details
- Onboard microprocessor for automatic temperature and aging compensation

Benefits

- A family of products with significant commonality minimizes demands for spares and training
- AnaSat® SSPAs are desinged for a minimum of maintenance. Periodic scheduled maintenance is not required.
- Designed to be mounted on most antennas.
- Simple installation.

Comprehensive Monitor & Control

The AnaSat® SSPA's Monitor & Control feature allows you to monitor and control the SSPA 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:

- Internal Webpage
- Telnet
- SNMP
- AnaCom Supervisor 10

Serial protocols:

- RS-232
- RS-485
- AnaCom Supervisor 10

Compact, Functional Design

The AnaSat® SSPA includes a solid-state power amplifier (PA), M&C, and a universal power supply all in a simple outdoor 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.

www.anacominc.com sales@anacominc.com phone 408.519.2062 fax 408.519.2063

AnaSat® SSPA

SPECIFICATIONS

	Ku-band Series	8W	16W	20W	23W	25W	32W	40W	50W	60W	80W	100W	125W
TRANSMIT CHARACTERISTICS	1 dB COMPRESSION POINT (dBm)	39	42	43	43.6	44	45	46	47	47.8	49	50	51
	TX GAIN	39	42	43	43.6	44	45	46	47	47.8	49	50	51
	TX LEVEL FLATNESS	6 dBp-p max / 500 MHz											
	TX FREQUENCY	Ku = 14.0 to 14.5 GHz SEKu = 13.75 to 14.5 GHz											
	TX GAIN OVER TEMPERATURE	+/- 2dB max											
	INTERMOD	-25 dBc max (2 carriers, total 3dB backoff from P1dB rating)											
	SPURIOUS	-55 dBc max out of band											

POWER & DIMENSIONS	TYPICAL POWER CONSUMPTION (VA)	160	270	294	300	300	340	770	800	850	1430	1600	1640
	PRIME POWER RECOMMENDATION	400	690	700	710	720	850	1700	1800	1900	3100	3500	3600
	WEIGHT (lbs.)	25	35	41	41	41	38	64	64	64	120	129	142
	(kg.)	11	16	19	19	19	17	29	29	29	54	59	64
	SSPA SIZE: - 8W	21.6" x 9.0" x 9.4" (549 x 229 x 239 mm)											
	- 16W, 20W, 23W, 25W	21.6" x 9.0" x 10.8" (549 x 229 x 274 mm)											
	- 32W	21.6" x 9.0" x 12.5" (549 x 229 x 317 mm)											
	- 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)											

	C-band Series	10W	20W	30W	40W	50W	60W	70W	80W	100W	125W	150W	180W	200W	300W	350W	400W
TRANSMIT CHARACTERISTICS	1 dB COMPRESSION POINT (dBm)	40	43	44.8	46	47	47.8	48.5	49	50	51	51.8	52.6	53	54.8	55.4	56
	TX GAIN	40	43	44.8	46	47	47.8	48.5	49	50	51	51.8	52.6	53	54.8	55.4	56
	TX LEVEL FLATNESS	6 dBp-p max / 500 MHz															
	TX FREQUENCY	EC = 5.850 to 6.425 GHz PC = 6.425 to 6.725 GHz					SEC = 5.850 to 6.725 GHz RC = 5.975 to 6.475 GHz					LMI-EC = 5.725 to 6.425 GHz XC = 6.725 to 7.025 GHz					
	TX GAIN OVER TEMPERATURE	+/- 2dB max															
	INTERMOD	-25 dBc max (2 carriers, total 3dB backoff from P1dB rating)															
	SPURIOUS	-55 dBc max out of band															

POWER & DIMENSIONS	TYPICAL POWER CONSUMPTION (VA)	125	229	280	390	394	398	570	572	762	1179	1179	1539	1539	2832	2832	2832
	PRIME POWER RECOMMENDATION	340	600	730	870	880	890	1200	1200	1600	2400	2400	3100	3100	6200	6200	6200
	WEIGHT (lbs.)	31	37	40	42	54	54	64	64	64	120	142	142	142	207	207	207
	(kg.)	14	17	18	19	24	24	29	29	29	54	64	64	64	94	94	94
	SSPA SIZE: - 10W	21.6" x 9.0" x 9.4" (549 x 229 x 238 mm)															
	- 20W, 30W	21.6" x 9.0" x 10.3" (549 x 229 x 262 mm)															
	- 40W	21.6" x 9.0" x 11.4" (549 x 229 x 289 mm)															
	- 50W, 60W	21.6" x 9.0" x 12.5" (549 x 229 x 317 mm)															
	- 70W, 80W, 100W	21.6" x 13" x 11.2" (549 x 330 x 284 mm)															
	- 125W, 150W, 180W, 200W	34.5" x 12.75" x 12.4" (876 x 324 x 315 mm)															
	- 300W, 350W, 400W	34.5" x 25.5" x 12.36" (876 x 648 x 314 mm)															

SYSTEM	ALARM RELAYS	FORM C for Summary Alarm; Isolated
	POWER	100 to 250 VAC; 47 to 63 Hz
	M&C	Optional RS-232 / RS-485

ENVIRONMENTAL	TEMPERATURE	-50 to +55°C operational -50 to +75°C storage
	HUMIDITY	95% at 45C
	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

*all specifications subject to change 6/15/15 388207

ANACOM, INC.
Phone: +1 408-519-2062 FAX: +1 408-519-2063
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