

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

- ✓ Built in test feature for improved maintainability and reduced dependence on external test equipment
- ✓ Summary fault-status reporting including overheating, PA failure, and converter failure. Robust 1+1 Redundant operation using
- ✓ AnaCom's Protection Switch. (125W maximum)
- ✓ No indoor equipment is needed
- ✓ 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
- ✓ Power supply voltages
- ✓ Internal Temperature
- ✓ Alarm Details
- ✓ Onboard microprocessor for automatic temperature and aging compensation

Benefits

- ✓ "Last Touch" controls allow for remote configuration or local (*manual*) configuration
- ✓ Flash memory means that the SSPA 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.

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 conferencing
- ✓ Conventional voice traffic



AnaSat[®] SSPA

Ku-band Series

SPECIFICATIONS

| | | 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 GAIN OVER TEMPERATURE | +/- 2dB max | | | | | | | | | | | |
| | TX FREQUENCY | Ku = 14 to 14.5 GHz | | | | | | SEKu 13.75 to 14.5 GHz | | | | | |
| | INTERMOD | -25 dBc max (2 carriers, each 3dB backoff from P1dB rating) | | | | | | | | | | | |
| SPURIOUS | -55 dBc max out of band | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | |
| 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: | - 0W, 2W, 4W 21.6" x 9.0" x 7" (549 x 229 x 178 mm) - 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) | | | | | | | | | | | |

*all specifications subject to change

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Phone: +1 408-519-2062 FAX: +1 408-519-2063
<http://www.anacominc.com>