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 convertor 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 designed 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.
# AnaSat® SSPA

## Specifications

### Ku-band Series

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

### Typical Power Consumption (VA)

<table>
<thead>
<tr>
<th>WEIGHT (lbs)</th>
<th>25</th>
<th>35</th>
<th>41</th>
<th>41</th>
<th>38</th>
<th>37</th>
<th>29</th>
<th>29</th>
<th>64</th>
</tr>
</thead>
<tbody>
<tr>
<td>(kg.)</td>
<td>11</td>
<td>16</td>
<td>19</td>
<td>19</td>
<td>17</td>
<td>17</td>
<td>17</td>
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</tr>
</tbody>
</table>

### Power & Dimensions

- **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

<table>
<thead>
<tr>
<th>1 dB COMPRESSION POINT (dBm)</th>
<th>10W</th>
<th>20W</th>
<th>30W</th>
<th>40W</th>
<th>50W</th>
<th>60W</th>
<th>70W</th>
<th>80W</th>
<th>100W</th>
<th>125W</th>
<th>150W</th>
<th>180W</th>
<th>200W</th>
<th>300W</th>
<th>350W</th>
<th>400W</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX GAIN</td>
<td>40</td>
<td>43</td>
<td>44.8</td>
<td>46</td>
<td>47</td>
<td>47.8</td>
<td>48.5</td>
<td>49</td>
<td>49</td>
<td>50</td>
<td>51</td>
<td>51.8</td>
<td>52.6</td>
<td>53</td>
<td>54.8</td>
<td>55.4</td>
</tr>
<tr>
<td>TX LEVEL FLATNESS</td>
<td>6 dBp-p max / 500 MHz</td>
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<tr>
<td>TX FREQUENCY</td>
<td>EC = 5.850 to 6.425 GHz</td>
<td>SEC = 5.850 to 6.725 GHz</td>
<td>LMI-EC = 5.725 to 6.425 GHz</td>
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<tr>
<td>TX GAIN OVER TEMPERATURE</td>
<td>+/- 2dB max</td>
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</tbody>
</table>

### Typical Power Consumption (VA)

| WEIGHT (lbs) | 31 | 37 | 40 | 42 | 54 | 54 | 64 | 64 | 120 | 142 | 142 | 207 | 207 | 207 |
|--------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| (kg.)        | 14 | 17 | 18 | 19 | 24 | 24 | 29 | 29 | 54  | 64  | 64  | 94  | 94  | 94  | 94  |

### Power & Dimensions

- **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
- **HUMIDITY:** 95% at 45°C
- **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

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