



The SpacePath Communications Indoor rack-mount C-Band SSPA Series are revolutionary in size, weight and power efficiency. This series offers superior performance only 2RU size! The Indoor 19" rack-mount series gives Satcom operators more options, and is easily installed in a 19" standard rack.

Options


- Output RF Sample Port
- Output power measurements - True RMS detector

Features

- Up to 20W PSAT Output Power in 19" Rack-mount 2RU only!
- Only 130W Power consumption at 20W output

- Superior RF performance:
 - High Linearity
 - Spurious below -60dBc
 - Wide dynamic range of Gain Control
- Built in WG Circulator provides full output VSWR Protection
- Configuration packet protocol RS-485 - User friendly HTTP based GUI and SNMP
- Built in Auto-Ranging AC power supply
- Field Replaceable power supply

20W C-Band SSPA Specification

| Parameter | C-Band |
|---|---|
| RF Performance | |
| RF Frequency Ranges-Available in/switched | 5.85-6.425GHz (other frequency options available) |
| Input Frequency Range | 5.85-6.425GHz (other frequency options available) |
| Group Delay | Linear: ± 0.03 ns/MHz Parabolic: ± 0.003 ns/MHz ² max Ripple: 1.0ns peak to peak max |
| Gain | 67dB min, 70dB typ |
| Gain Flatness | +/-1dB typ +/-1.5dB max over full band; +/-0.4dB max over any 40MHz |
| Gain Stability | +/-1.5dB over full temperature range; \square +/-0.25dB, 24 hours at constant temperature |
| Output Power at P1dB | 43dBm min (20W min) |
| Output Power at Psat | 44dBm typ (25W typ) |
| Linear Output Power P _{lin} | 40dBm min (10W min) |
| Gain Control | 20dB min dynamic range with 0.1dB step |
| AM/PM Conversion | 1deg max up to 20W |
| Input Return Loss | -16dB max |
| Output Return Loss | -18dB max (for WR137 output) |
| Linearity: 2 tone IMD Spectral Re-growth | -25dBc at P _{lin} -30dBc for QPSK at 1.5 x symbol rate at P linear +1dB |
| Noise Power Density: Transmit Band Receive Band | -85dBm/Hz max -140dBm/Hz max |
| Output Spurious: Non-signal related Signal related | -60dBc -55dBc |
| Harmonic Output | \leq -55dBc (at P _{lin}) |
| Power | |
| AC Voltage Range | 90-265VAC 50-60Hz Auto-Ranging PFC |
| Power Consumption | 130W typ |
| Mechanical | |
| Size | 2RU 19" Chassis |
| Weight | 3.4KG |
| Cooling | Forced Air |
| Operating temperature | 0°C to +60°C |
| Storage temperature | -40°C to +85°C |
| Interfaces and Indicators | |
| RF Input Connector | N-type female 50 Ω |
| RF Sample Connector | N-type female |
| RF Output Connector | QPR137 grooved |
| RS485-RS232 | DB9 Connector rear panel |
| Ethernet-SNMP | RJ45 rear panel |
| Standards | |
| CE Status |  certified |