



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 10W PSAT Output Power in 19" Rack-mount 2RU only!
- Only 130W Power consumption at 10W 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

10W C-Band SSPA Specification

Parameter		
RF Performance		
RF Frequency Range		5.85-6.425GHz (other frequency options available)
Input Frequency Range		5.85-6.425GHz (other frequency options available)
Gain		67dB min, 70dB typ
Group Delay		Linear: $\pm 0.03\text{ns/MHz}$ Parabolic: $\pm 0.003\text{ns/MHz}^2$ max Ripple: 1.0ns peak to peak max
Gain Flatness		$\pm 1\text{dB}$ typ $\pm 1.5\text{dB}$ max over full band; $\pm 0.4\text{dB}$ max over any 40MHz
Gain Stability		$\pm 1.5\text{dB}$ over full temperature range; $\square \pm 0.25\text{dB}$, 24 hours at constant temperature
Output Power at P1dB		40dBm min (10W min)
Output Power at Psat		41dBm typ (12W typ)
Linear Output Power P _{lin}		37dBm min (5W 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 1.5xsymbol 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		$\leq -55\text{dBc}$ (at P _{lin})
Power		
AC Voltage Range		90-265VAC 50-60Hz auto-ranging
Power Consumption		130W typ
Mechanical		
Size		2 RU 19" Chassis
Weight		7.5lbs
Cooling		Forced Air
Operating temperature		0°C to +60°C
Storage temperature		-40 to +85 deg. C
Interfaces and Indicators		
RF Input Connector		Precision N-; female
RF Sample Connector		Precision N-; female
RF Output Connector		CPR137 grooved
RS485-RS232		DB9 Connector rear panel
Ethernet-SNMP		RJ45 rear panel
Standards		
CE Status		 Certified