Using technology developed for ModuMAX[™] amplifiers, these rack-mount SSPAs offer an output power of 400 watts across the standard 5.850-6.425 GHz or extended 5.850-6.725 GHz satellite uplink bands

The SSPAs incorporate a modular architecture that includes the RF modules, power supplies, logic, fans, and front panel assembly. The amplifiers are designed for reliable service in fixed and mobile applications.

FEATURES:

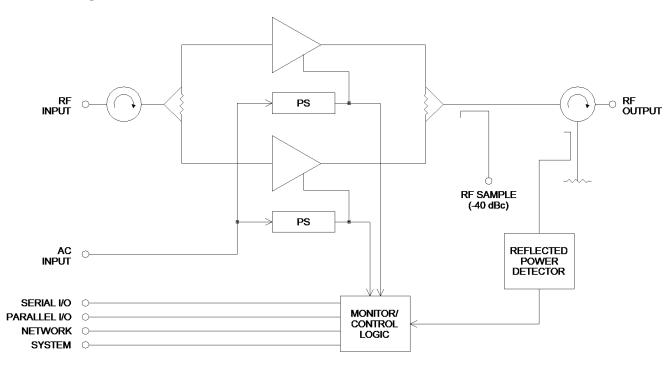
- 400 W saturated output power
- Digital gain adjustment (20 dB range)
- Forward and reflected power monitoring
- Microprocessor based monitor and control
- Serial interface (RS-232/-422/-485) standard
- 10 Base-T network interface (SNMP, HTTP)
- RF input and output sample port
- Integral 1:1 redundancy control

APPLICATIONS:

- Single-thread SSPA
- Redundant systems (1:1, 1:2)
- Fixed installations
- Mobile terminals
- Commercial, Government and Military systems

ACCESSORIES:

• RCP-2001 remote panel



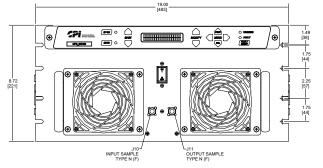


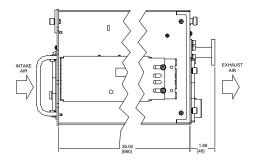
Block Diagram

DPCD, DPCM6400	R	Specifications	
Parameter	Notes	Specification	
Frequency Range	Band "D" Band "M"	5.85 to 6.425 GHz 5.85 to 6.725 GHz	
Gain, at Maximum Setting		70 dB min., Standard	
Gain Adjustment Range	Digital	20 dB min. in 0.1 dB steps	
Gain Flatness		±1.0 dB over the full band; ±0.3 dB over any 40 MHz	
Saturated Power Output		+56 dBm typ. (400 W)	
Power Output at 1dB compression (P1 dB)		+55.2 dBm min. (320 W)	
Two Tone Intermodulation		-25 dBc max.,-30 dBc typical at 3 dB total backoff from 1dB compressior point	
Group Delay	Linear Parabolic Ripple	0.03 ns/MHz 0.003 ns/MHz ² 1.0 ns peak to peak	
AM/PM Conversion		2.5°/dB typical, 3.5°/dB max. at (P1 dB)	
VSWR	Input Output	1.25:1 typical, 1.30:1 max. 1.20:1 typical, 1.30:1 max.	
RF Sample Ports	Input Output	-10 dB typical -40 dB typical	
Connectors	RF Input RF Output Sample Ports Serial I/O Parallel I/O System RCP Link Network Power	Type N Female CPR137G Waveguide Type N Female 9-pos D-sub Female, mate supplied 25-pos D-sub Male, mate supplied 15-pos D-sub, Male 9-pos D-sub, Male RJ-45 Jack 4-pos CE05, mate supplied	
Power Requirements	Voltage Frequency Power Power factor corrected	90 to 135 VAC or 180 to 270 VAC 63 Hz max., 47 Hz min. 2000 W typical, 2400 W max. (1) .98 typical	
Cooling System		Forced Air, Intake on front panel	
Operating Temperature Range	Ambient air temperature	0°C to +50°C	
Dimensions	See outline drawing	8.75" H x 19" W x 27.88" D; 222 mm H x 483 mm W x 708 mm D	
Weight	Approximate	93 lb (42 kg)	



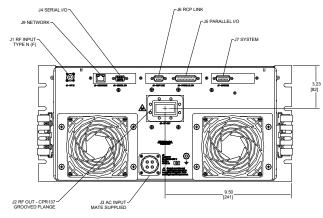
Outline Drawing, SSPA





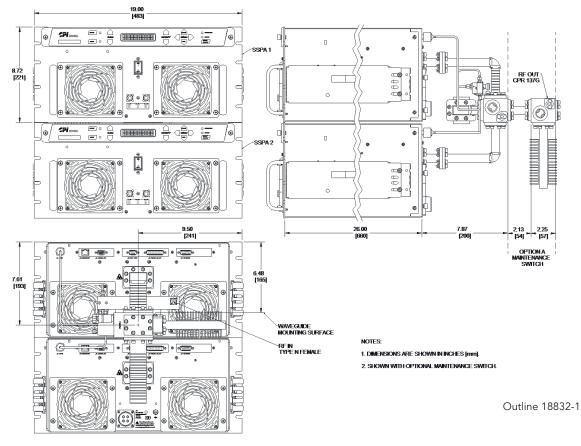
1. DIMENSIONS ARE SHOWN IN INCHES [mm]. 2. MAX. AIRFLOW: 285 cfm (480 m*3/hr) 3. NET WEIGHT APPROX. 93 lbs. (42 kg) 4. RACK SLIDES PROVIDED; INSTALLED BY CUSTOMER.

NOTES:



Outline 18445







Connector Interface

Ref. Des.	Function	Connector Type	Mating Connector	Comment
J1	RF Input	Type N Female	Type N Male	
J2	RF Output	CPR137G Waveguide	CPR137 Flange	
J3	AC In	4-pos CE05, Male	4-pos MS or CE05, Female	Mate supplied
J4	Serial I/O	9-pos D-sub, Female	9-pos D-sub, Male	Mate supplied
J5	Parallel I/O	25-pos D-sub, Male	25-pos D-sub, Female	Mate supplied
J6	RCP Link	9-pos D-sub, Male	9-pos D-sub, Female	
J7	System	15-pos D-sub, Male	15-pos D-sub, Female	
J9	Network	RJ-45 Jack	RJ-45 Plug	
J10	Input Sample	Type N Female	Type N Male	Front panel mounted
J11	Output Sample	Type N Female	Type N Male	Front panel mounted

Part Number Ordering Information

SSPA: Part/Model No.	DPC 6400R	1:1 Redundant System*: Part/Model No. DPRC1 400R-X	
5.850–6.425 GHz = D		5.850–6.425 GHz = D	
5.850–6.725 GHz = M		5.850–6.725 GHz = D	
* Performance specifications of a redundant system depend on the installed configuration and optional accessories. Contact the factory for more information and for 1:2 system capabilities.		Option: Maintenance SwitchA Selects antenna or dummy load at system output	

Related Accessory:

RCP-2001, SSPA Remote Control Panel

1U-high rack-mount panel enables remote manual control of the SSPA. Can be located up to 1.3 km (4000 ft.) away and interconnects with inexpensive cable.



SMP Division Satcom Products tel: +1 (669) 275-2744 email: satcommarketing@cpii.com web: www.cpii.com/satcom For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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