AMPLIFIERS

## SCCX2000 Solid State RF Power Amplifier

10kHz - 220 MHz • 2kW • Rack Integrated • Solid State Reliability

The Instruments for Industry, SCCX2000 Solid State amplifier is state-of-the-art and provides outstanding RF performance. The SCCX2000 amplifier operates over the frequency range from 10kHz - 220 MHz and supplies >2KW of CW Power. From the ground up, the SCCX2000 amplifier is built to withstand rugged handling. This series features heavy-duty aluminum chassis construction rack-integrated with a modular approach for easy access and service. The SCCX2000 is perfectly suited for all Military / Avionic and EMC testing as well as general purpose industrial applications.

Operation safety and ease of use are paramount in IFI product designs. The SCCX2000 amplifier includes a full complement of RF and hardware protection circuits including high VSWR, over-current, voltage protection, redundant thermal and airflow sensors for the module and the system level. In addition, the SCCX2000 includes a state-of-the-art user interface that is sophisticated, comprehensive, and yet simple to use.

The backlit Color Touchscreen shows forward/reverse power indication in watts & dBm, system status and self-diagnostic information. Peak power metering is incorporated to measure forward and reflected power while producing pulse power. All the amplifier operating parameters are simultaneously available in the amplifier front panel display as well as over the remote bus. Selection switches allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely.

For computer automation an RS-232 and IEEE interface are provided as standard as well as USB & Ethernet. To meet individual application needs, the SCCX2000 Series amplifiers can be easily customized with other options. With this capability and its reliable elegant design, the SCCX2000 series amplifiers are the perfect system for your applications.

#### **Features**

- Solid State Design
- Rugged Construction & High Reliability
- Instantaneous Broadband Frequency range
- Color Touchscreen
- Modular Design Construction
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 interface, RS232, USB & Ethernet Remote
- Whisper Mode: lower acoustic noise (Temperature controlled variable speed)
- Peak power metering





## Instruments For Industry

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General Specifications:							
Model	Frequency	Rated Power	Gain	Mains	Weight	Size	
Number	Range	(watts minimum)	(dB min)	(kVA)	(Pounds)	(Inches)	
SCCX2000	10kHz – 220MHz	2000	63	20.0	600 Lbs.	Rack Integrated	
Standard Features for IFI SCCX2000 Solid State Amplifier							
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Standard	VSWR Reflected Power Protection, the unit operates without damage or oscillation into any magnitude of phase or load impedance,						
Features:	Open & Short Circuit Protection.  * Alternate Prime Power (specify at time of order)						
	GPIB IEEE 488, RS232, USB & Ethernet Remote Control						
	RF Sample Port on the Front Panel, 112R for rear panel						
	Internal Pre-amplification to obtain rated output power with an input level of 0 dBm or less.						
	Gain Control Local & Remote, 30dB range						
	RF Input/Output Connectors on the Front Panel, 118R for rear panel Internal Systems Diagnostics & Status Indicators						
	Total/Operate Elapsed Time Metering in hours						
	RF Safety Interlock Forward/Reflected Power Indication simultaneously on Front Panel display						

IFI SCCX2000 Solid State Amplifier Specifications					
Frequency Range:	10kHz - 220 MHz				
Rated Output Power:	2000W min.				
P1dB Power:	1200W min.				
Gain @ Rated Power:	63 dB				
Prime Power:	100-240 VAC +/-10%, 50/60 Hz, Three Phase				
Input/output Impedance:	50 ohms				
RF Input/ Sample Connectors:	Type N Female, unless specified otherwise				
RF Output Connector:	Type N Female Other connectors available by request or specification				
Input VSWR:	2.0:1				
Output VSWR:	2.5:1				
Operating Temp:	0° to 50° C				
Non-operating Temp:	-40° to 70° C (50,000 feet max)				
Humidity:	95% without condensation				
Altitude:	10,000 feet				
Cooling System:	Air cooled, self contained				
Modulation:	Pulse, AM, FM				
Configuration:	Rack Mountable				
Spurious Outputs:	<-50 dBc nominal				
Harmonics:	-20dBc nominal @ Linear Power				

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