



SCCX1000 Solid State RF Power Amplifier

10kHz – 250 MHz • 1.0kW • Compact Size – 8U & 3U • Solid State Reliability

The Instruments for Industry, SCCX1000 Solid State amplifier is state-of-the-art and provides outstanding RF performance. The SCCX1000 amplifier operates over the frequency range from 10kHz - 250 MHz and supplies >1.0KW of CW Power. From the ground up, the SCCX1000 amplifier is built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site. This series features heavy-duty aluminum chassis construction with a modular approach for easy access and service. The SCCX1000 is perfectly suited for all Military / Avionic and EMC testing as well as general purpose industrial applications.

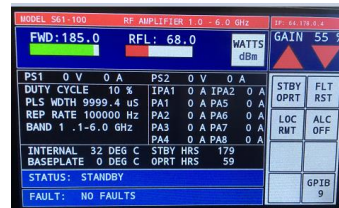
Operation safety and ease of use are paramount in IFI product designs. The SCCX1000 amplifier includes a full complement of RF and hardware protection circuits including high VSWR, over-current, voltage protection, redundant thermal and airflow sensors for the module and the system level. In addition, the SCCX1000 includes a state-of-the-art user interface that is sophisticated, comprehensive, and yet simple to use.

The backlit LCD screen shows forward/reverse power indication, 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 both an RS-232 and IEEE interface are provided as standard. To meet individual application needs, the SCCX1000 Series amplifiers can be easily customized with other options. With this capability and its reliable elegant design, the SCCX1000 series amplifiers are the perfect system for your applications.

Features

- Solid State Design
- Rugged Construction & High Reliability
- Instantaneous Broadband Frequency range
- Backlit screen
- Modular Design Construction
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 interface & RS232 Remote
- Whisper Mode: lower acoustic noise
- Peak power metering





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General Specifications:

Model Number	Frequency Range	Rated Power (watts minimum)	Gain (dB min)	Mains (kVA)	Weight (Pounds)	Size (Inches)
SCCX1000	10kHz – 250MHz	1000	60	4.0	125 Lbs.	5.25”H x 19”W x 25.25”D 14.0”H x 19”W x 25.25”D

Standard Features for IFI SCCX1000 Solid State Amplifier

Standard Features:	<p>VSWR Reflected Power Protection, the unit operates without damage or oscillation into any magnitude of phase or load impedance, Open & Short Circuit Protection.</p> <p>* Alternate Prime Power (specify at time of order)</p> <p> GPIB IEEE 488 & RS232 Remote Control</p> <p> RF Sample Port on the Front Panel, 112R for rear panel</p> <p> Internal Pre-amplification to obtain rated output power with an input level of 0 dBm or less.</p> <p> Gain Control Local & Remote, 30dB range</p> <p> RF Input/Output Connectors on the Front Panel, 118R for rear panel</p> <p> Internal Systems Diagnostics & Status Indicators</p> <p> Total/Operate Elapsed Time Metering in hours</p> <p> RF Safety Interlock</p> <p> Forward/Reflected Power Indication simultaneously on Front Panel display</p>
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IFI SCCX1000 Solid State Amplifier Specifications

Frequency Range:	10kHz - 250 MHz
Rated Output Power:	1000W min. 1200 nominal
P1dB Power:	600W min. 700 nominal
Gain @ Rated Power:	60 dB
Prime Power:	As Required (Some are listed below)
Input/output Impedance:	50 ohms
RF Input/ Sample Connectors:	Type N Female, unless specified otherwise
RF Output Connector:	Type N or 716 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:	<-60 dBc nominal
Harmonics:	-20dBc nominal @ Linear Power



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Standard Prime Powers:

220, 230, 240VAC ±10% 50/60 Hz, single phase
120/208 VAC ±10% 50/60 Hz, three phase Wye
200/220/230/240VAC ±10% 50/60 Hz, three phase Wye or Delta power is available
Special Prime Powers other than listed are subject to availability

Some Available Options for IFI SCCX1000 Series Solid State Amplifiers

Option 110-1E:	GPIB IEEE-488 RS232 and Ethernet Remote Control
Option 110-2:	GPIB IEEE-488 and RS 422 Remote Control
Option 110-3:	GPIB IEEE-488 and RS 485 Remote Control
Option 113:	Chassis slides for a 19" rack mounting
Option 118A:	RF Input On Front Output On Rear
Option 118B:	RF Input On Rear Output On Front
Option LC:	Liquid Cooled

Outline Configuration

