

SMX Series





- Intuitive user interface
- Rugged Modular Design Construction
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler
- 3 year warranty

Instruments for Industry, SMX Series Solid State amplifiers provide outstanding RF performance. Operating over the fre-quency range from 10 KHz to 1.0 GHz and can be supplied at power levels up to 500 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the SMX Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site.

Operation safety and ease of use are paramount in IFI product designs. The IFI SMX Series include 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 system level. In addition, the SMX series includes an intuitive interface that is sophisticated, comprehensive, and yet simple to use. The color interface displays forward/reverse power indication, system status and self-diagnostic information. All the amplifiers operating parameters are simultaneously available via the interface as well as over the remote bus. Selection via the interface allow you to switch the ampli¬fier to the desired mode of operation for local control if the unit is not being operated remotely.

For remote control operation USB, Ethernet, GPIB and RS232 interface are provided as standard. To meet individual application needs, the SMX Series amplifiers can be easily customized with other options. With this capability and its reliable design, the SMX series amplifiers are the perfect system for your applications.

Models & General Specifications

Model Number	Frequency Range	Rated Power	P1dB Power	Gain	Mains Power	Weight	Size
SMX10	10 kHz -	10 W	10 W	40 dB	0.1 kVA	16 kg	19 inch, 3U Rack Case, 680 mm Deep
SMX100	1 GHz	100 W	80 W	50 dB	0.9 kVA	37 kg	
SMX200	1 0112	200 W	150 W	53 dB	2.4 kVA	69 kg	19 inch, 4U Rack Case, 680 mm Deep
SMX25		25 W	25 W	44 dB	0.26 kVA	19 kg	19 inch, 3U Rack Case, 680 mm Deep
SMX300		300 W	250 W	55 dB	2.9 kVA	82 kg	19 inch, 8U Rack Case, 680 mm Deep
SMX50		50 W	40 W	47 dB	0.65 kVA	35 kg	19 inch, 3U Rack Case, 680 mm Deep
SMX500		500 W	400 W	57 dB	4 kVA	114 kg	19 inch, 8U Rack Case, 680 mm Deep





RF Specifications

Gain Variation (max) ±	+/- 3.0 dB
Harmonics P1dB	-20 dBc
Modulation Formats	AM, FM, Pulse
Gain Control	0-30 dB in 255 Steps
Output VSWR Tolerance	Infinite any phase (< 4:1 no foldback, > 4:1 gradual foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2.5:1 (max)
Spurious (min.)	-60 dBc
Spurious (typ.)	-70 dBc

General Specifications

Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	< 3KVA Single Phase 90 to 264 VAC, > 3KVA Three Phase, 5 Wire STAR, 380 to 415 VAC / 4 Wire Delta, 208 to 240 VAC
Supply Frequency	47 to 63 Hz
RF Input Connector	Type N female
RF Output Connector	Type N or 7/16 Female
Com. Interface	GPIB, RS232, Ethernet & USB
Cooling System	Air Cooled, Self-contained

Available Models

Product	Description
SMX10	10 KHz to 1 GHz 10W Dual Band Power Amplifier
SMX100	10 KHz to 1 GHz 100W Dual Band Power Amplifier
SMX200	10 KHz to 1 GHz 200W Dual Band Power Amplifier
SMX25	10 KHz to 1 GHz 25W Dual Band Power Amplifier
SMX300	10 KHz to 1 GHz 300W Dual Band Power Amplifier
SMX50	10 KHz to 1 GHz 50W Dual Band Power Amplifier
SMX500	10 KHz to 1 GHz 500W Dual Band Power Amplifier

