



FEATURES

- Reduces antenna test time and improves range productivity
- Compatible with a variety of receivers
- Built-in pulse modulator with TTL modulation input
- Frequency range: 0.01 to 20 GHz
- Resolution: 0.001 Hz
- -20 dBm to +15 dBm, adjustable power output
- Fully integrated with NSI-MI antenna measurement software
- Remote operation with Ethernet/TTL control cables
- Low harmonics: <-25 dBc (at 5 dBm)

DESCRIPTION

The NSI-MI High Speed Microwave Source is designed specifically to address the demanding needs of the antenna test community. This source is a high performance synthesizer designed for high-speed frequency switching application and is compatible with a wide variety of receivers, including the NSI-MI 9100 Receiver.

STANDARD COMPONENTS

- Driver for integration with NSI-MI antenna measurement software
- Synthesizer unit
- Installation and operation manual
- Driver for integration with NSI-MI receivers
- Power supply cord

OPERATION

The NSI-RF-9020B has an Ethernet interface used to control frequency output, and has the ability to manage a list of up to 4096 frequencies. In this mode, the source can step through the frequency list, commanded by triggers through the rear panel trigger connector.

NSI-MI provides full program support for the NSI-RF-9020B with its Antenna Measurement Software. For other applications, NSI-MI provides the drivers required for integration with the 9100 Receiver. The virtual front panel software provides full control of the source.

Specifications	9020B	9020B-FS
Frequency Switching Speed	2,500 frequencies per second (400 μ s/pt.)	25,000 frequencies per second (40 μ s/pt.)
Power Out	-20 dBm to +15 dBm, 0.01 dB resolution	
Frequency Range	0.01 to 20 GHz	
Frequency Resolution	0.001 Hz	
Harmonics	< -25 dBc (at 5 dBm)	
Phase Noise	-100 dBc/Hz at 1 kHz offset at 10 GHz	
Spurious	< -60 dBc	
Frequency Stability	3x10E-9/ °C	
Software Interface	Supported by NSI-MI Antenna Measurement Software	
Computer Interface	Ethernet, USB	
List Mode	Up to 4096 points	
RF Output	SMA female	
Size (HxWxD)	3.5" x 19" x 16"	
Controls and Indicators	DC power indicator, pulse input, trigger, RF on standardized format and order	
Frequency Reference In	1 MHz to 250 MHz, BNC connector	
Frequency Reference Out	10 or 100 MHz, BNC connector	
AC Power	100-120/200-240 VAC, 50/60 Hz	

