



FEATURES

- Up to 2,500 frequencies per second (400 μ s/pt.) - 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
- -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)
- Resolution: 0.001 Hz

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 Panther 9100 and the Panther 8100.

STANDARD COMPONENTS

- Driver for integration with NSI-MI Antenna Measurement Software
- Synthesizer unit
- Installation and operation manual
- Driver for integration with Panther Receivers
- Power supply cord

OPERATION

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

SPECIFICATIONS	
Power Out	-20 dBm to +15 dBm, 0.01 dB resolution
Frequency Range	0.01 to 20 GHz
Frequency Switching Speed	2,500 frequencies per second (400 μ s/pt.)
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

