

NGX1000

PROGRAMMABLE NOISE GENERATOR



The Boonton NGX1000 programmable noise generator is a high performance, broadband additive white gaussian noise (AWGN) generator in an easy-to-use compact form factor. The streamlined user interface and flat menu structure provides a fast, simple way to add RF noise in a communications system to test reliability, robustness and performance. All functionality of the generator is accessible through the 5" touch screen or via remote control through an ethernet connection delivering flexible, programmable noise generation for broad use in semiconductor, military, aerospace, satellite, medical and communications applications. The NGX1000 is capable of generating noise in the frequency range of 10 MHz to 3 GHz with exceptional flatness over the entire frequency band and user-selectable attenuation from 0 dB to 127.9 dB in 0.1 dB steps. The noise output is through an N connector for fast, direct connection to a device or system under test.

FEATURES

- White Gaussian noise output
- Output power up to +10 dBm
- 127 dB of attenuation; 0.1 dB step size
- 5" touch screen display
- Noise output through female N connector
- Ethernet connection for remote control

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SPECIFICATIONS

Model	Frequency Range	Output Power	dBm / Hz	Flatness	$\mu\text{V} / \text{root Hz}$	Noise Attenuation
NGX1108B	10 MHz - 500 MHz	+10 dBm	-77 dBm	± 1.0 dBm	31.6	0 - 127.9 dB, 0.1 dB steps
NGX1110B	10 MHz - 1.5 GHz	+10 dBm	-82 dBm	± 1.5 dBm	18.2	0 - 127.9 dB, 0.1 dB steps
NGX1111B	1 GHz - 2 GHz	+10 dBm	-80 dBm	± 1.5 dBm	22.4	0 - 127.9 dB, 0.1 dB steps
NGX1112B	10 MHz - 2 GHz	0 dBm	-93 dBm	± 2.0 dBm	5.01	0 - 127.9 dB, 0.1 dB steps
NGX1113B	10 MHz - 3 GHz	0 dBm	-95 dBm	± 2.5 dBm	5.01	0 - 127.9 dB, 0.1 dB steps

- Noise attenuator accuracy:
 - ± 0.2 dB or 0.5% at 1 – 500 MHz
 - ± 0.2 dB or 1% at 0.5 – 1.0 GHz
 - ± 0.3 dB or 2% at 1 – 2 GHz
- Noise output through female N connector
- Ethernet connection for remote control
- 5" touch screen display
- Dimensions (HWD) – 3.5 in x 8.3 in x 11.2 in

OPTIONAL ACCESSORIES

- NGX1K-RMK Full-width 19" Rack Mount Kit (includes handles & hardware for mounting one or two generators)
- NGX1K-TCASE Transit case