

R&S® SMB100A Signal Generator

Versatile, compact solution for signal generation



The perfect choice for

General purpose applications

Production testing

Development of RF ICs

Car radio testing

Key specifications

Frequency range	9 kHz to 1.1/2.2/3.2/6 GHz or 100 kHz to 12.75/20/31.8/40 GHz
Max. output power	+27 dBm
SSB phase noise	-128 dBc (typ.) (at 1 GHz, 20 kHz offset)
Nonharmonics	<-78 dB (typ.) at 3 GHz <-66 dB (typ.) at 10 GHz
Modulation	AM/FM/φM/PM

Signal generator with outstanding spectral purity and high output power

- Wide frequency range from 9 kHz to 6 GHz or from 100 kHz to 40 GHz
- Graphical user interface
- 3-year calibration cycle
- USB, Ethernet and GPIB connectivity
- Compact size with only 2 HU and low weight

Your benefit

Graphical interface allows you to intuitively set up the signal

Best in class signal quality delivers better results

40 % smaller footprint, 60 % lighter, 60 % less power consumption

Features

- Block diagram user interface
- Graphic display of signals
- Click, configure and control with a mouse
- Mimics the functional blocks of a transmitter

Higher output power (consistently higher, without expensive options)

R&S®SMB100A: 200 sq in, 11.7 lb, 60 W

► For more information, visit www.rohde-schwarz.com/catalog/SMB100A

Various connectivity options



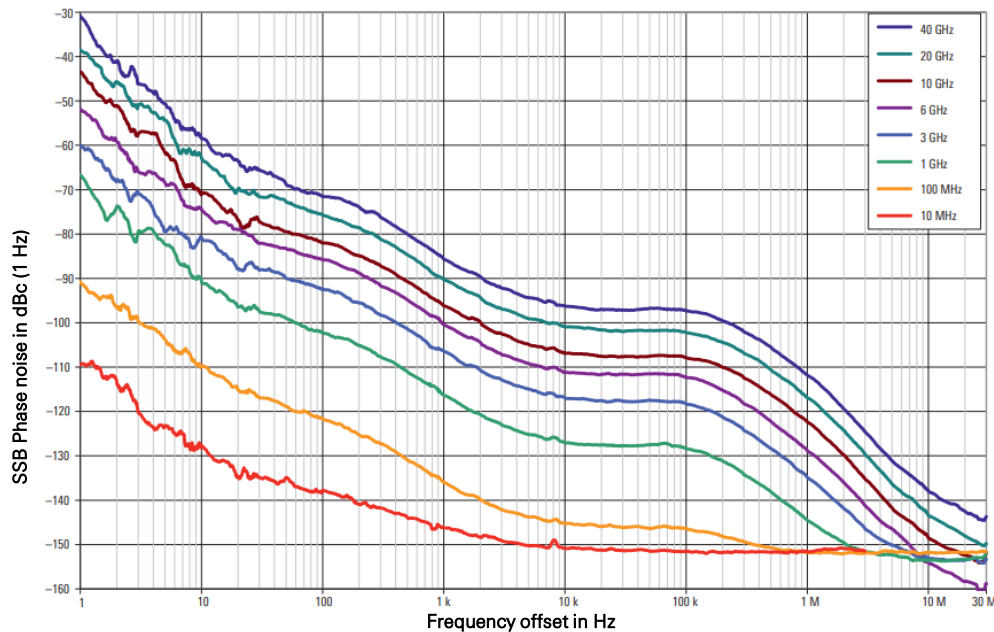
Integrate into current test setup without having to alter your USB, Ethernet or GPIB connectivity interface.

Dynamic, flexible and scalable



Wide frequency range, high output power and a variety of modulations make the R&S®SMB100A a flexible signal source for a broad scope of applications.

Measured SSB phase noise



Best signal quality in the mid range class signal generator – consistently achieves excellent values over the entire frequency range from 9 kHz to 6 GHz or 100 kHz to 40 GHz.

Ordering information

Choose your model

Type	Frequency range
R&S®SMB-B101	9 kHz to 1.1 GHz
R&S®SMB-B102	9 kHz to 2.2 GHz
R&S®SMB-B103	9 kHz to 3.2 GHz
R&S®SMB-B106	9 kHz to 6 GHz
R&S®SMB-B112/-B112L	100 kHz to 12.75 GHz
R&S®SMB-B120/-B120L	100 kHz to 20 GHz
R&S®SMB-B131	100 kHz to 31.8 GHz
R&S®SMB-B140/-B140L/-B140N	100 kHz to 40 GHz

Included: All models include power cable, quick start guide and three-year warranty.

Popular options/accessories

Description	Type
Reference oscillator OCXO, high performance ¹⁾	R&S®SMB-B1H
Stereo/RDS coder ²⁾	R&S®SMB-B5
Harmonic filter option 150 MHz to 20 GHz ³⁾	R&S®SMB-B25
Harmonic filter option 150 MHz to 40 GHz ⁴⁾	R&S®SMB-B26
High power option 50 MHz to 20 GHz ⁵⁾	R&S®SMB-B31
High power option 50 MHz to 40 GHz ⁶⁾	R&S®SMB-B32
Pulse modulator for R&S®SMB-B112/-B112L/-B120/-B120L/-B141/-B140/B140N/-B140L	R&S®SMB-K21
Pulse modulator for R&S®SMB-B101/-B102/-B103/-B106	R&S®SMB-K22
Pulse generator	R&S®SMB-K23
Pulse train ⁷⁾	R&S®SMB-K27

¹⁾ Only one of the R&S®SMB-B1 or R&S®SMB-B1H option can be installed.
²⁾ Only available with an R&S®SMB-B101/-B102/-B103/-B106 frequency option
³⁾ only available with R&S®SMB-B120/-B120L
⁴⁾ only available with R&S®SMB-B131/-B140/-B140N/-B140L
⁵⁾ only available with R&S®SMB-B120/-B120L
⁶⁾ only available with R&S®SMB-B131/-B140/-B140N/-B140L
⁷⁾ Requires the R&S®SMB-K23 option.