



R&S®SMB100A SIGNAL GENERATOR

Versatile, compact, up to 40 GHz; 170 GHz with upconverter

The perfect choice for



General Purpose

Production Testing

Development of RF ICs

Car Radio Testing

Key specifications	
Frequency range	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)
Non-harmonics	<-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 100 kHz to 40 GHz
- ▶ Graphical user interface
- ▶ 3-year calibration cycle
- ▶ USB, Ethernet and GPIB connectivity
- ▶ Compact size with only two height units and low weight

Your benefit	Features
Graphical interface allows you to set up the signal the way you think about it	<ul style="list-style-type: none"> ▶ Block diagram user interface ▶ Graphic display of signals ▶ Click, configure and control with a mouse ▶ Mimics the functional blocks of a transmitter
Best in class signal quality delivers better results	<ul style="list-style-type: none"> ▶ Higher output power (consistently higher, without expensive options)
40% smaller footprint; 60% lighter; 60% less power	<ul style="list-style-type: none"> ▶ R&S®SMB100A: 200 Sq In; 11.7 lb; 60 W



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Various connectivity



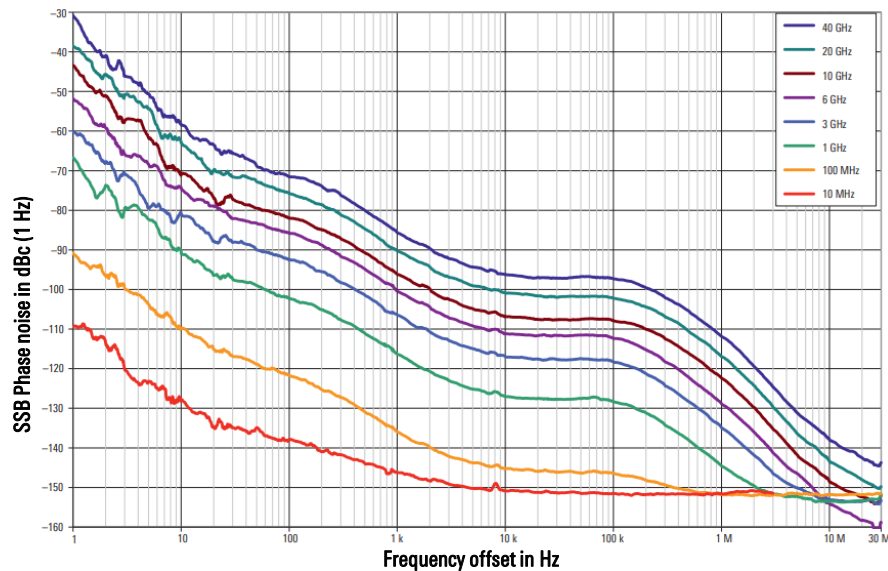
Integrate into current test setup without having to alter your USB, Ethernet or GPIB connectivity interface.

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 achieving excellent values over the entire frequency range from 100 kHz to 40 GHz.

Ordering information

Choose your model	
Description	Item
100 kHz to 12.75 GHz	R&S®SMB-B112/-B112L
100 kHz to 20 GHz	R&S®SMB-B120/-B120L
100 kHz to 31.8 GHz	R&S®SMB-B131
100 kHz to 40 GHz	R&S®SMB-B140/-B140L/-B140N
Popular options/accessories	
Description	Type
Reference oscillator OCXO, high performance ¹⁾	R&S®SMB-B1H
Harmonic filter option 150 MHz to 20 GHz ²⁾	R&S®SMB-B25
Harmonic filter option 150 MHz to 40 GHz ³⁾	R&S®SMB-B26
High power option 50 MHz to 20 GHz ⁴⁾	R&S®SMB-B31
High power option 50 MHz to 40 GHz ⁵⁾	R&S®SMB-B32
Pulse modulator for R&S®SMB-B112/-B112L/-B120/-B120L/-B141/-B140/B140N/-B140L	R&S®SMB-K21
Pulse generator	R&S®SMB-K23
Pulse train ⁶⁾	R&S®SMB-K27

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

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



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