



R&S®SMB100B RF SIGNAL GENERATOR

Perfect combination of performance and usability in a compact size

The perfect choice for




Perfect for signal quality, perfect for output power, perfect for use

The new R&S®SMB100B RF signal generator is all about performance and versatility in a small footprint. Outstanding spectral purity and very high output power combined with comprehensive functionality and very simple operation are some of the impressive features of the R&S®SMB100B.

Local oscillator substitution for design and test engineers	Receiver sensitivity testing for design and test engineers	Key specifications Frequency range: 8 kHz to 1/3/6 GHz Max Output power: 34 dBm (meas.) at 1 GHz SSB phase noise: < -132 dBc (typ.) at 1 GHz and an offset of 20 kHz Non-harmonics: < -76 dBc (spec.) at 1 GHz Modulation: AM/FM/φM/PM
FM receiver testing	Pulsed signals in aerospace and defense applications to test radar systems	

Your benefit	Features
No need for external amplifiers	▶ Ultra high output power (34 dBm, 1 GHz, meas.)
Freely configurable pulse scenarios	▶ Pulse train option in combination with the pulse modulator and pulse generator option
Quickly and correctly create remote control programs	▶ The instrument's built-in SCPI macro recorder with code generator can automatically record all manual settings and create an executable MATLAB® script.
Compensation of external frequency responses	▶ The R&S®SMB100B provides a user correction (UCOR) function for this purpose.
Replace your legacy signal generator	▶ R&S®LegacyPro enables the R&S®SMB100B to reliably emulate a wide range of legacy generators from vendors such as Keysight, Agilent, HP, Anritsu and Rohde & Schwarz.

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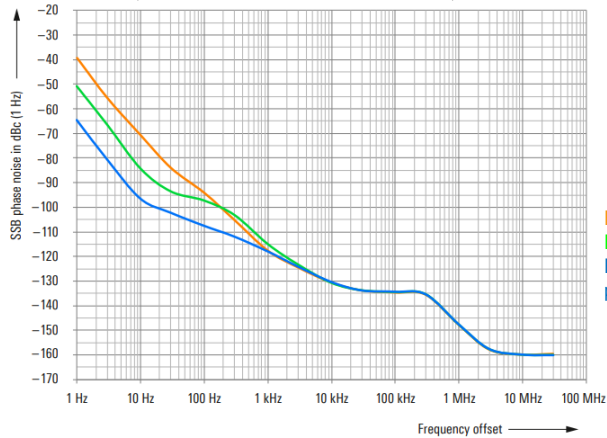
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Perfect for signal quality

Single-sideband phase noise
(1 GHz, 1 Hz bandwidth, measured)

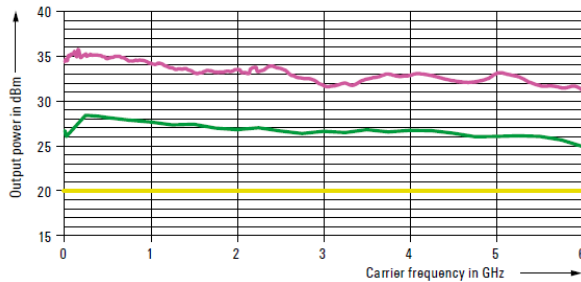


R&S®SMB100B standard
R&S®SMBB-B1 OCXO option
R&S®SMBB-B1H high performance OCXO option

Thanks to its innovative synthesizer design, the R&S®SMB100B has very low SSB phase and wideband noise and excellent suppression of nonharmonic signal components

Perfect for output power

Maximum output power (measured)



R&S®SMBB-B32 ultra high power option
R&S®SMBB-K31 high power option
Standard output power

The R&S®SMB100B provides very high output power, no external amplifier is required downstream. This simplifies the test setup and results in high absolute level accuracy.

Popular options

Frequency options

8 kHz to 1 GHz

8 kHz to 3 GHz

8 kHz to 6 GHz

Reference oscillator options

OCXO Reference Oscillator ¹⁾

OCXO Reference Oscillator, High Performance ²⁾

100 MHz, 1 GHz Ultra Low Noise Reference Input and Output

Flexible Reference Input from 1 MHz to 100 MHz

Output power options

High Output Power 1/3/6 GHz

Ultra High Output Power 1/3/6 GHz ³⁾

Power analysis

Item

R&S®SMBB-B101

R&S®SMBB-B103

R&S®SMBB-B106

R&S®SMBB-B1

R&S®SMBB-B1H

R&S®SMBB-B3

R&S®SMBB-K704

R&S®SMBB-K31

R&S®SMBB-B32

R&S®RTE-K31

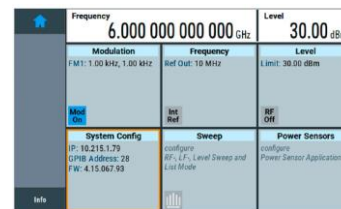
¹⁾ Only one of the R&S®SMBB-B1 or R&S®SMBB-B1H options can be installed.

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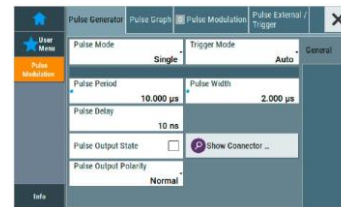
³⁾ Requires the R&S®SMBB-K31 option.

Perfect for use

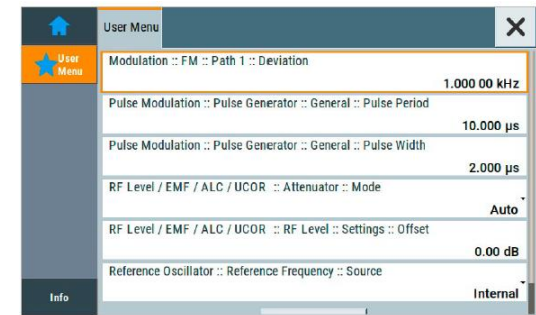
The R&S®SMB100B has a user-friendly high-resolution touchscreen interface which is fast and simple to operate.



Main screen - All important parameters and information.



Individual menu items can be added to the user menu. Added items are marked with a blue star.



User menu - Individually composed parameters can be directly set in this menu.