R&S®SMB100B RF Signal Generator

Perfect combination of performance and usability in a compact

format



Local oscillator substitution for design and test engineers		Receiver sensitivity testing for design and test engineers
FM receiver testing		Pulsed signals in aerospace and defense applications to test radar systems
Key specifications	5	
		1/3/6 GHz
Frequency range	8 kHz to	1/3/6 GHz n (meas.) at 1 GHz
Frequency range Max. output power	8 kHz to +34 dBn	n (meas.) at 1 GHz IBc (typ.) at 1 GHz and an offse
Key specifications Frequency range Max. output power SSB phase noise Nonharmonics	8 kHz to +34 dBn < -132 c of 20 kH	n (meas.) at 1 GHz IBc (typ.) at 1 GHz and an offse

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.

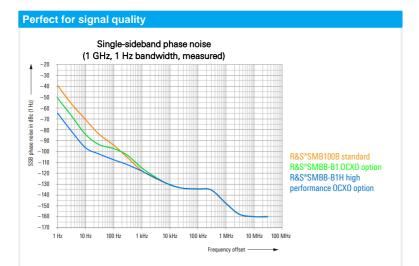
Your benefit	Features
No need for external amplifiers	Ultra high output power (+34 dBm, 1 GHz, meas.).
Freely configurable pulse scenarios	Pulse train option in combination with the pulse modulator and pulse generator option.
Quickly and correctly create remote control programs	The instrument's built-in 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.

⊳ For more information, visit

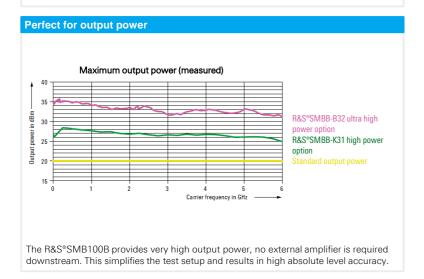
www.rohde-schwarz.com/catalog/SMB100B



fest & Measurement Fact Sheet | 01.00 R&S®SMB100B RF

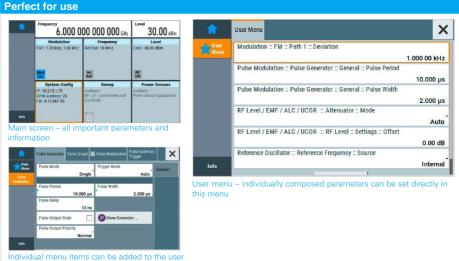


Thanks to its innovative synthesizer design, the R&S SMB100B has very low SSB phase and wideband noise and excellent suppression of nonharmonic signal components



Popular options	
Frequency options	Туре
8 kHz to 1 GHz	R&S®SMBB-B101
8 kHz to 3 GHz	R&S®SMBB-B103
8 kHz to 6 GHz	R&S®SMBB-B106
Reference oscillator options	Туре
OCXO reference oscillator 1)	R&S®SMBB-B1
OCXO reference oscillator, high performance ²⁾	R&S®SMBB-B1H
100 MHz, 1 GHz ultra low noise reference input and output	R&S®SMBB-B3
Flexible reference input from 1 MHz to 100 MHz	R&S [®] SMBB-K704
Output power options	
High output power 1/3/6 GHz	R&S®SMBB-K31
Ultra high output power 1/3/6 GHz ³⁾	R&S®SMBB-B32
Power analysis	R&S®RTE-K31

Only one R&S*SMBB-B1 or R&S*SMBB-B1H option can be installed Only one R&S*SMBB-B1 or R&S*SMBB-B1H option can be installed Bequires the R&S*SMBB-K31 option



menu. Added items are marked with a blue star

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

Rohde & Schwarz GmbH & Co. KG | Europe, Africa, Middle East +49 89 4129 12345 | North America 1 888 TEST RSA (1 888 837 87 72) Latin America +1 410 910 79 88 | Asia Pacific +65 65 13 04 88 | China +86 800 810 82 28 / +86 400 650 58 96 www.rohde-schwarz.com | customersupport@rohde-schwarz.com

R&S[®] is a registered trademark of Rohde & Schwarz GmbH & Co. KG | PD 5216.4033.32 | Version 01.00 | November 2018 (as) Trade names are trademarks of the owners | R&S[®]SMB100B RF Signal Generator | Data without tolerance limits is not binding Subject to change | © 2018 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany