## R&S<sup>®</sup>FPC1000 versus Rigol DSA832E

## The R&S<sup>®</sup>FPC1000 is superior to the Rigol DSA832E series in major RF parameters and other hardware features at a comparable price

The R&S<sup>®</sup>FPC1000 offers far superior RF performance, engineered in Germany: DANL, phase noise, TOI, RBW range are better than on the Rigol DSA832E. It also offers a much better display, Wi-Fi remote control capability and a unique, flexible frequency upgrade concept. These key USPs make the R&S<sup>®</sup>FPC1000 simply outstanding compared to the Rigol DSA832E.



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R&S<sup>®</sup>FPC1000, 10.1" display with 1366 x 768 pixel resolution.

Rigol DSA832E, 8" display with 800 x 480 pixel resolution.

Your benefit	Features
Price/performance ratio	The R&S®FPC1000 provides an extremely low noise floor with high max. input resulting in widest dynamic range in its class; RIGOL provides inferior RF performance at a similar price point
Unique upgrade path	Only buy the frequency you need thanks to keycode upgradeability; RIGOL devices require an additional instrument purchase
One step further	The R&S®FPC1000 features a Wi-Fi module – unique on the market – and offers the ability to control the FPC1000 remotely

Parameter	R&S <sup>®</sup> FPC1000	Rigol DSA832E			
Frequency range	5 kHz to 1/2/3 GHz	9 kHz to 3.2 GHz			
DANL (norm. to 1 Hz)					
1 GHz, PA off	< -146 dBm (typ.)	< -140 dBm (typ.)			
1 GHz, PA on	< -165 dBm (typ.)	< -158 dBm (typ.)			
SSB phase noise at 500 MHz					
10 kHz offset	< -85dBc/Hz (typ.)	< -90 dBc/Hz at 1 GHz (typ.)			
30 kHz offset	<92 dBc/Hz (typ.)	-			
100 kHz offset	< -103 dBc/Hz (typ.)	< –100 dBc/Hz at 1 GHz (typ.)			
1 MHz offset	< -125 dBc/Hz (typ.)	-			
RBW range	1 Hz to 3 MHz	10 Hz to 1 MHz			
TOI at 1 GHz (att.: 10dB)	+17 dBm (meas.)	+7 dBm			
Display	10.1" (1366 x 768)	8" (800 × 480)			
Wi-Fi connection	yes	no			
Max. input power	+30 dBm (1 W)	+20 dBm (100 mW)			
Power consumption	16 W	35 W typ. (max. 50 W)			
Remote control interfaces	Ethernet, USB, Wi-Fi	Ethernet, USB, GPIB			
Other interfaces	audio, trigger/ref in/out	audio, ref in/out, ext. trigger in			
Weight	3 kg	4.55 kg			

For more information, visit https://www.rohde-schwarz.com/product/FPC



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## High sensitivity and resolution



R&S°FPC1000: < –165 dBm/Hz with R&S°FPC-B22 preamplifier.



R&S<sup>®</sup>FPC1000: better signal detection due to 1 Hz esolution bandwidth setting.

<sup>1)</sup> Wi-Fi feature not available in some countries due to local certification requirements.

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 R&S° is a registered trademark of Rohde & Schwarz GmbH & Co. KG | PD 5214.9215.32 | Version 01.01 | March 2017 (ad)

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