R&S®FPC1000 versus Rigol DSA832E

The R&S[®]FPC1000 is superior to the Rigol DSA832E series in major RF parameters and other hardware features at a comparable price

The R&S[®]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®FPC1000 simply outstanding compared to the Rigol DSA832E.



R&S[®]FPC1000, 10.1" display with 1366 x 768 pixel resolution.

Rigol DSA832E, 8" display wi	Ith
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 [®] 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



Comp. Sheet | 01.01

eless labo	oratory/classroom	display – easily mo	onitor and assist	students ¹⁾	
🖩 Instrument View					_ & 🗙
Connected	Lab Display 🗙				
🖳 Print	FPC1000 SN :963101 IP :172.17.75.8	FPC1000 SN :940402 IP :172.17.75.23	FPC1000 SN :902905 IP :172.17.75.42	FPC1000 SN :907107 IP :172.17.75.74	FPC1000 SN :909831 IP :172.17.75.92
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Instrument					
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Station	Station 2	Station 3	Station 4	Virtual classroom conce Flexible deployment of c	pt. classrooms anywhere, anytime.

High sensitivity and resolution



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



R&S[®]FPC1000: better signal detection due to 1 Hz esolution bandwidth setting.

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

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 Trade names are trademarks of the owners | R&S°FPC1000 versus Rigol DSA832E Comp Sheet | Data without tolerance limits is not binding

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