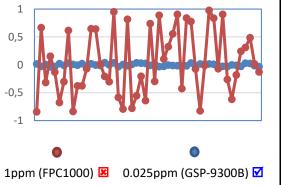
GW Instek GSP-9300B vs. R&S FPC1000 Competitive Fact Sheet

Comparison on key functions	GSP-9300B			R&S FPC1000
Frequency Range	×	9 kHz ~ 3 GHz	V	5 kHz ~ 1/2/3GHz *upgrade
Frequency Stability	Ø	0.025ppm, 1ppm/year	×	1ppm, 1ppm/year
RBW Range	M	1Hz to 1MHz in 1-3-10 sequence EMI Filter standard	×	1 Hz~3 MHz in 1-3-10 sequence EMI Filter (Option, receiver mode)
Pre-amplifier		Built-in 18 dB internal standard	×	16dB internal (Option, PA)
Measurement Function	☑	SEM, ACPR, OCBW, CHPW, N-dB BW, Phase Jitter, Harmonic, TOI, CNR, CSO, CTB, P1dB, TDP	×	OCBW, CHPW (Option Adv. Meas)
Display Modes	☑	Spectrogram, Topographic, Split-Window	×	Spectrogram (Option Adv. Meas.)
Other Function	₽	Sequence, Limit Line, Correction Table	×	Limit Line
Tracking Generator	☑	100 kHz ~ 3 GHz (optional), 0 ~ -50 dBm	×	N/A
Demodulator	-	AM / FM standard	Ø	AM/FM, ASK/FSK (Option Demod.)
Interface	-	USB, RS-232, GPIB(Opt), Lan, MicroSD	-	USB, Lan, WiFi(Option Wifi)
Trace Number	Ø	4	×	2
Wireless function	-	3G/4G LTE SIM	-	WiFi Connection (Option, WiFi)

Frequency Stability

The frequency stability of GSP-9300B is 0.025ppm, which is 40 times of FPC1000's 1ppm. The diagram on the right shows the difference. Higher frequency stability stabilizes frequency measurement. Therefore, users do not need a frequency counter to measure frequency. Users also do not need external reference time base signal to increase frequency stability.



The importance of Tracking Generator

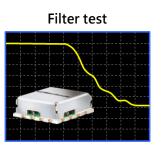
Spectrum analyzer collocating with tracking generator can conduct various tests, including filter's frequency response, antenna's working frequency, RFID test, cable loss test, amplifier's frequency response and P_{1dB} test, etc. GSP-9300B has TG option while FPC1000 cannot operate TG that significantly reduces FPC1000's applications.



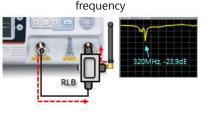
GSP-9300B TG option.



FPC1000 Does not support TG.



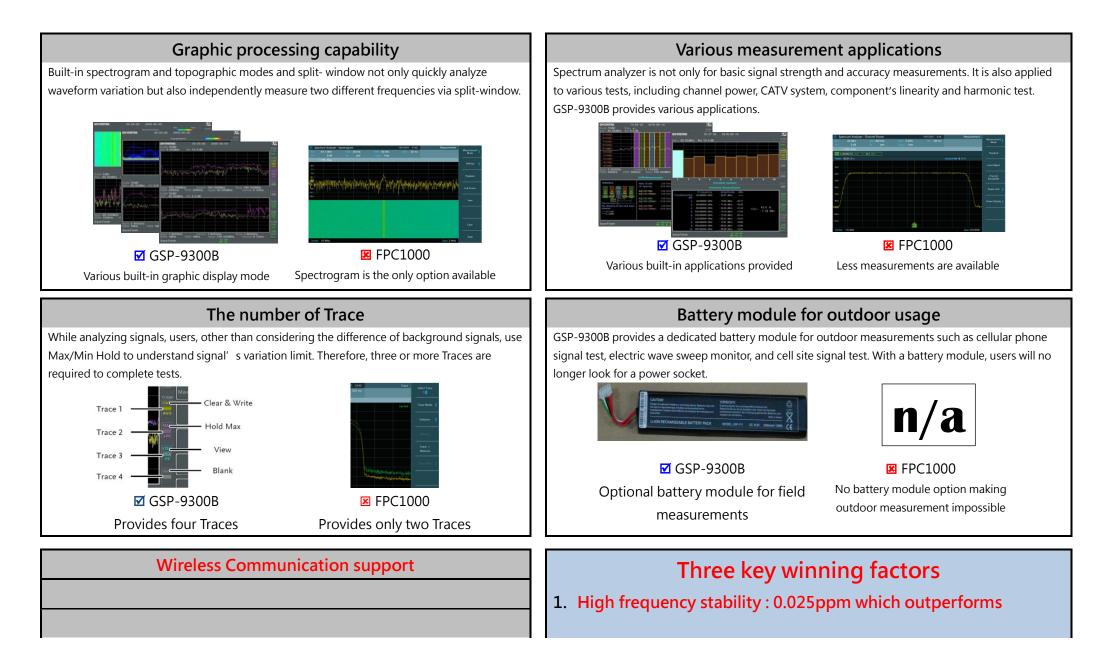
Measurement of antenna's working





Amplifier's P_{1dB} test





GSP-9300B supports 3G/4G USB Dongle internet card. Insert internet card to directly connect 3G/4G wireless signals and then send information to remote server. The instrument can be remotely controlled and the data can be retrieved.





Provides 3G/4G connections

Provides WiFi and App connections

FPC1000

- 2. Emphasize the importance of TG applications
- 3. Various measurement application software are included with the purchase of GSP-9300B. Users do not have to spend extra money on application software.