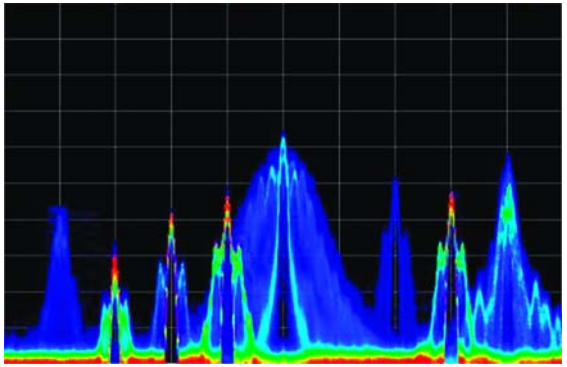
RSA3000B Series Spectrum Analyzer Fact Sheet

Midrange real-time spectrum analyzer

Features	Benefits
DPX® Spectrum Display 100% Probability of Intercept (POI)	Improve test confidence and catch very short duration transients missed by conventional spectrum analyzers. Discover signal behavior previously unseen.
Frequency Mask Trigger 100% POI	Save time by isolating signal faults and efficiently utilizing memory with a unique frequency domain trigger. Isolate hardware and software anomalies with cross domain triggering between multiple instruments.
Seamless data capture into deep memory or external recording system	Observe the entire duration of signal events, like frequency hopping sequences, PLL settling times, turn on transients, and multiple pulses.
Time-correlated data analysis with automatic domain correlation and linked markers	Accelerate troubleshooting and analysis by pinpointing the root cause of problems in multiple domains.
One box multi-function design for spectrum analysis, vector signal analysis, pulse analysis, baseband analysis, signal source analysis, audio distortion analysis, and wireless standard analysis	Simplify test and save test time with multiple measurements on the same captured data. Reduce cost of test with a versatile single instrument that replaces multiple test sets.

Discover Trigger Capture Analyze



RSA3000B Series with Live RF for faster RF debug

Offers the unique capability to:

- **Discover** the unexpected with DPX Live RF displaying > 48,000/s spectrum updates
- **Trigger** on transient signals in the frequency domain as fast as 20 microseconds
- **Capture** a seamless time record of RF frequencies
- **Analyze** complex RF signals with multi-domain time correlated measurements

Tektronix

www.tektronix.com/rsa3000

RSA3000B Series Spectrum Analyzer Fact Sheet

Key specifications and ordering information

Models	Frequency Range	Bandwidth	Minimum Event Duration for 100% POI DPX / FMT	SFDR (typical)
RSA3303B	DC to 3 GHz	15 MHz	41 µs / 40 µs	-70 dBc
RSA3308B	DC to 8 GHz	15 MHz	41 µs / 40 µs	-70 dBc
RSA3408B	DC to 8 GHz	36 MHz	31 µs / 20 µs	-73 dBc

Key Software Analysis Options	
Opt. 10	Audio Distortion Analysis
Opt. 21	Advanced Measurement Suite (General Purpose Demodulation, RFID, Signal Source Analysis)
Opt. 24	GSM/EDGE Analysis
Opt. 25	CDMA 1X Forward/Reverse Link Analysis
Opt. 26	1X EVDO Forward/Reverse Link Analysis
Opt. 28	TD-SCDMA Analysis
Opt. 29	WLAN 802.11a/b/g/n Analysis
Opt. 30	WCDMA & HSDPA Downlink Analysis
Opt. 40	3GPP Release 6 (HSUPA) Analysis
RSALTE	IQ Signal for LTE
RSA-IQWIMAX	IQ Signal for WiMAX Analysis

Hardware Options	
Opt. 02	Frequency Mask Trigger / 256 MB memory
Opt. 03	Differential IQ Inputs (Baseband)
Opt. 05	Digital IQ Output (LVDS)
Opt. 06	Removable HDD*

Recommended Service Options	
R3/R5	3 or 5 year repair service plan
C3/C5	3 or 5 year calibration service plan

Industry	Key Applications
▪ Radio Communications	▪ Transmitter Test ▪ Frequency Hopping Testing ▪ Audio Distortion Analysis
▪ RFID	▪ Pre-conformance and pre-compliance RF Test ▪ Field RF Interference Test
▪ Spectrum Management	▪ Signal search in real-time bandwidth to 36 MHz ▪ Multi-domain signal analysis
▪ Wireless LAN	▪ 802.11 a/b/g/n Tx Analysis ▪ MIMO Transmit Efficiency and Environment Analysis
▪ Radar	▪ Transmitter test ▪ Pulse characterization

www.tektronix.com/rsa3000

8/08 DM/WOW 37W-22466-0

Tektronix