

The Best Value in Electronic Test & Measurement



SSA3000X Series Spectrum Analyzers



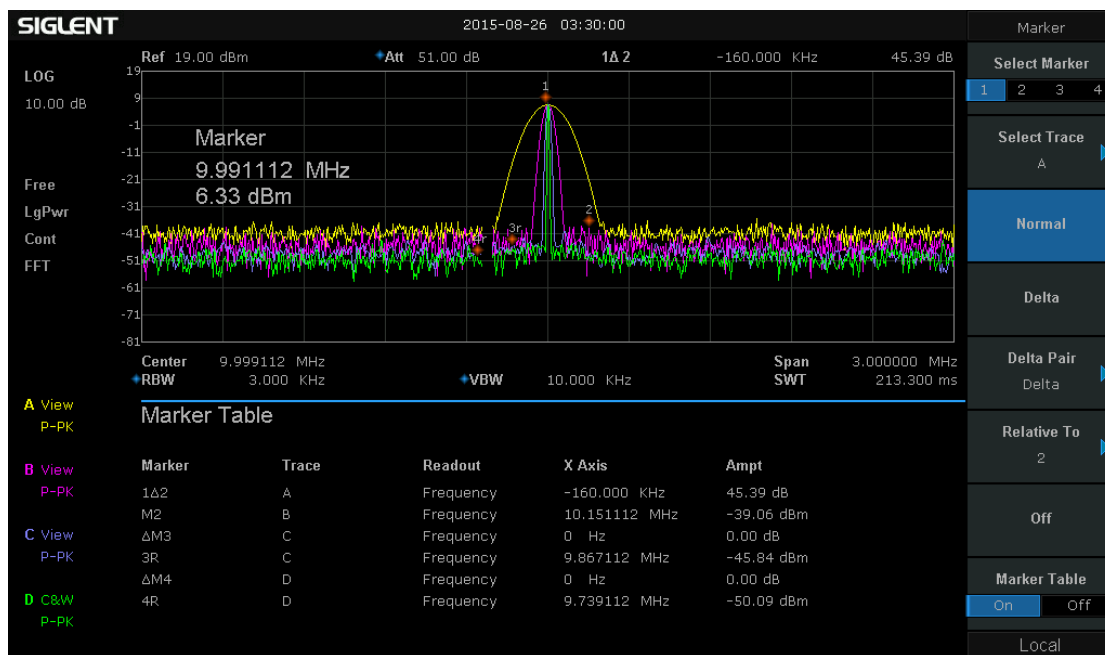
Product Overview

Siglent's SSA3000X family of spectrum analyzers offer a frequency range of 9 KHz to 2.1 GHz / 3.2 GHz. With their light weight, small size, and friendly user interface, the SSA3000s present a bright easy to read display, powerful and reliable automatic measurements, and plenty of impressive features. Applications are many, but include research and development, education, production, maintenance, and many more.

Key Features

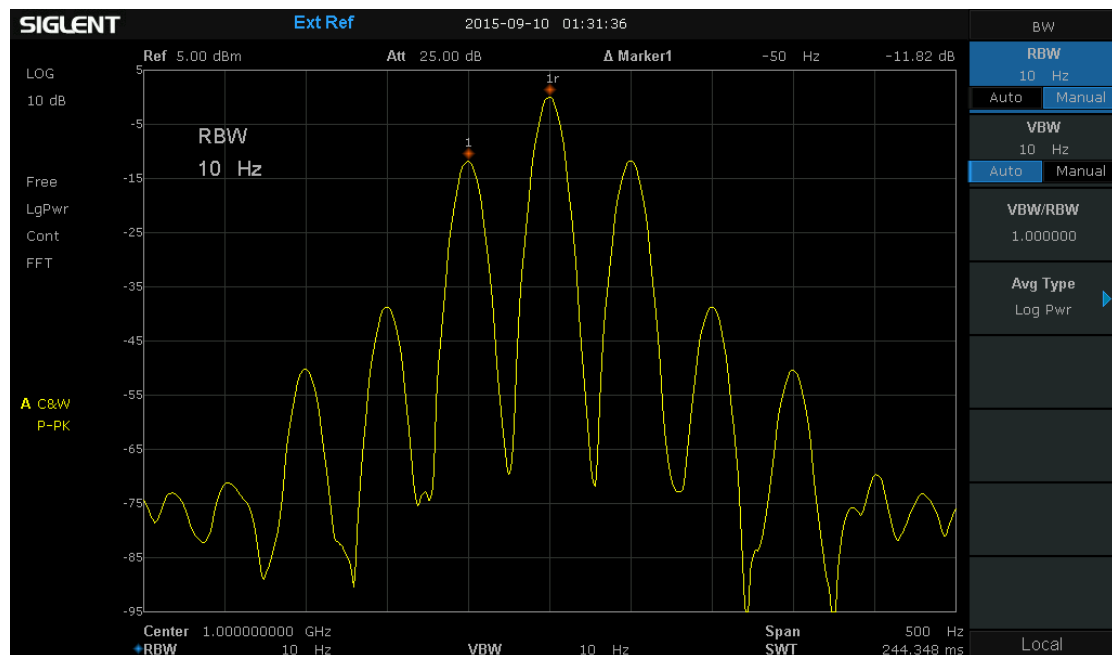
- ◆ All-Digital IF Technology
- ◆ -161 dBm/Hz Displayed Average Noise Level (Typ.)
- ◆ Total Amplitude Accuracy < 0.7 dB
- ◆ Standard Preamplifier
- ◆ Reflection Measurement Kit (Opt.)
- ◆ EMI Pre-compliance Measurements Kit (Opt.)
- ◆ Frequency Range from 9 kHz up to 3.2 GHz
- ◆ -98 dBc/Hz @10 kHz Offset Phase Noise (1 GHz, Typ.)
- ◆ 10 Hz Minimum Resolution Bandwidth (RBW)
- ◆ Up to 3.2 GHz Tracking Generator Kit (Opt.)
- ◆ Advanced Measurement Kit (Opt.)
- ◆ 10.1 Inch WVGA (1024x600) Display

Characteristics Intuitive menu, easy-to-use, support four traces and cursors independently



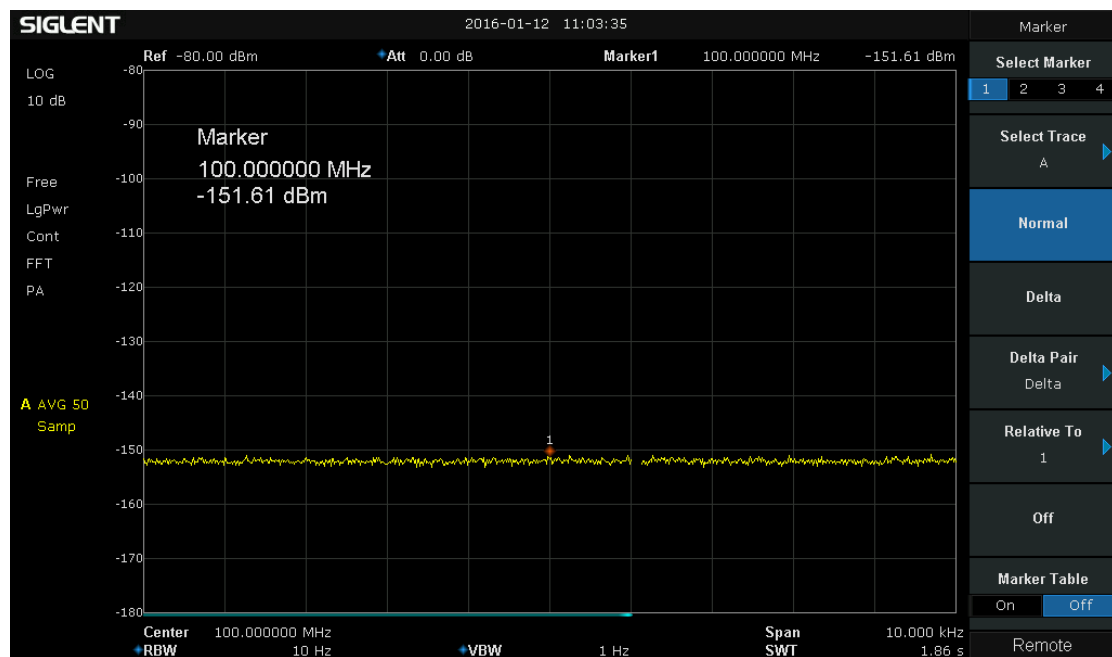
System interface shows a simple design style. The menu layout is optimized to display an informative one-page operation. Four traces are classified by color, which helps users to distinguish appropriate spectra changes. The screen employs powerful cursor – assisted measurements. Data and waveforms can be displayed on the screen simultaneously.

10 Hz Minimum Resolution Bandwidth (RBW)



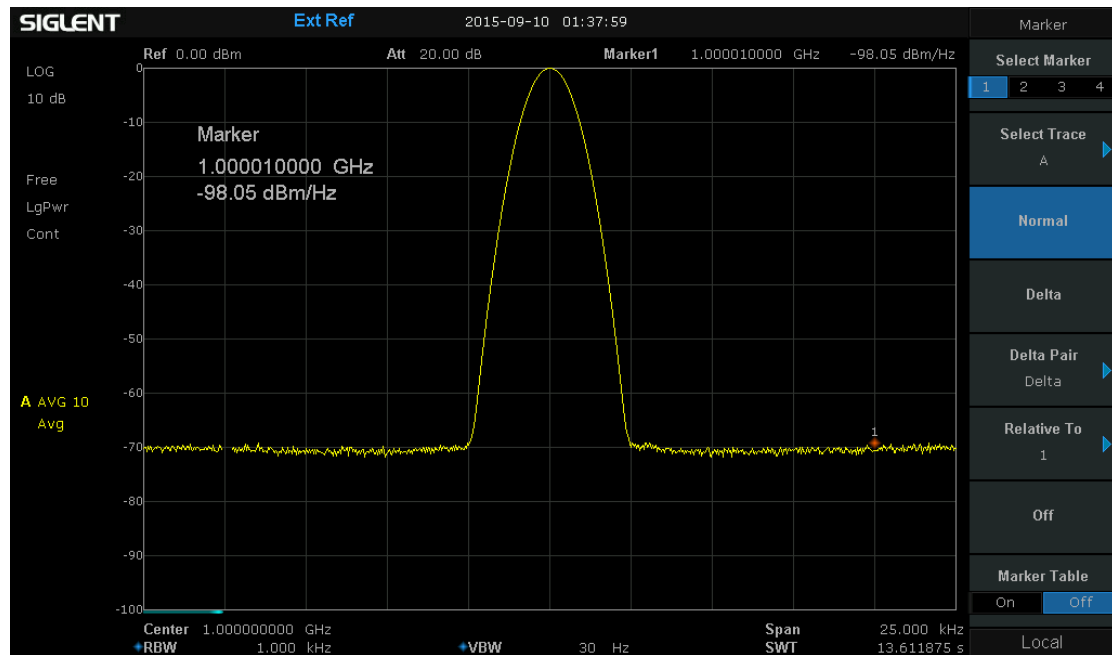
Digital IF technology offers a minimum bandwidth of 10Hz, allowing excellent signal resolution when separation of closely spaced signals is required.

-151 dBm Displayed Average Noise Level (RBW=10 Hz)



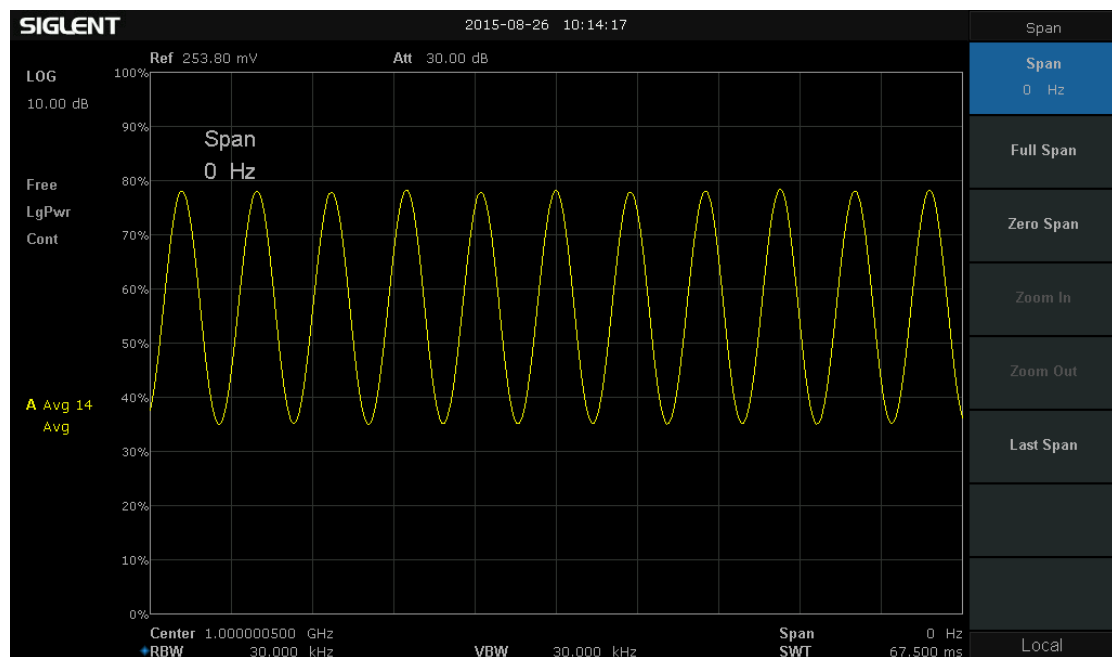
Built in high-performance RF front-end, SSA3000X series offer low background noise, and a standard built-in preamplifier. The overall high sensitivity improves weak signal monitoring.

Phase noise -98 dBc/Hz @1 GHz @ 10 kHz offset



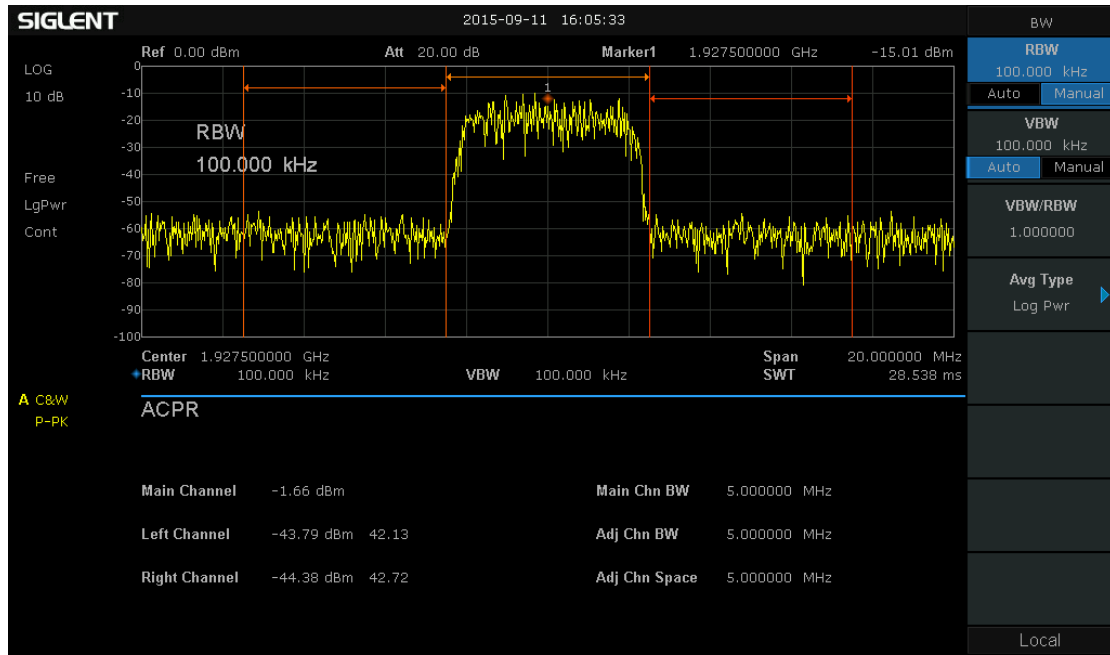
Excellent phase noise performance enables users to evaluate most synthesizers and signal generators.

Demodulation at the zero span setting



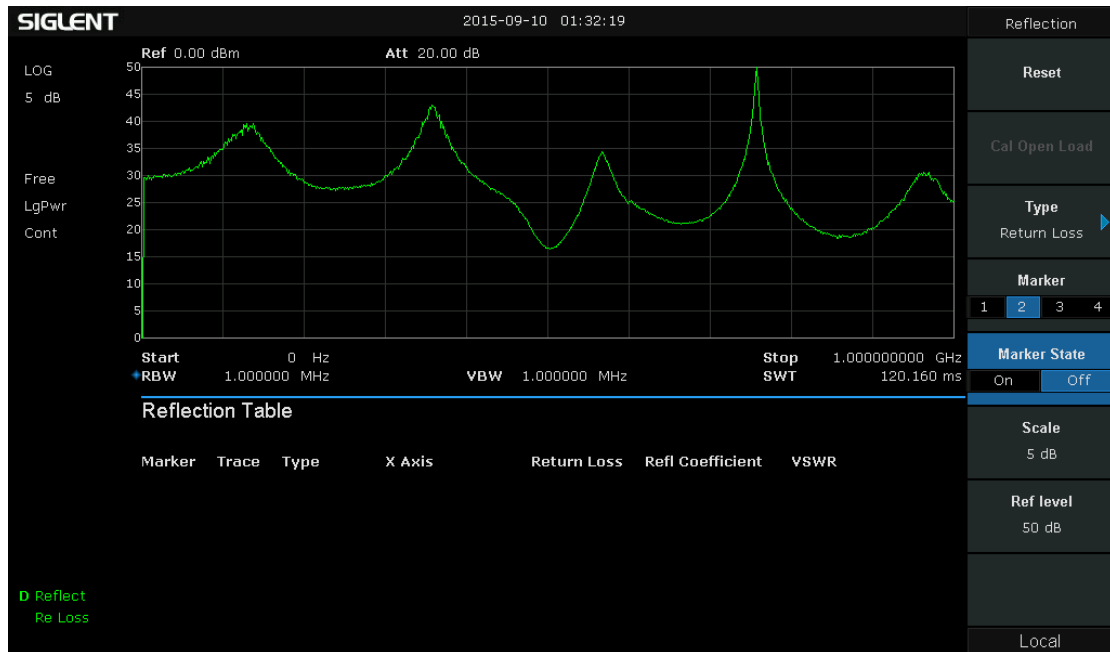
When the spectrum analyzer is set at zero span, the detector can demodulate the input signal enabling users to observe the modulated signals on screen over time. The SSA3000X includes a front panel audio output jack for listening to AM and FM demodulated signals.

Advanced power measurement, calculate the ACPR parameters



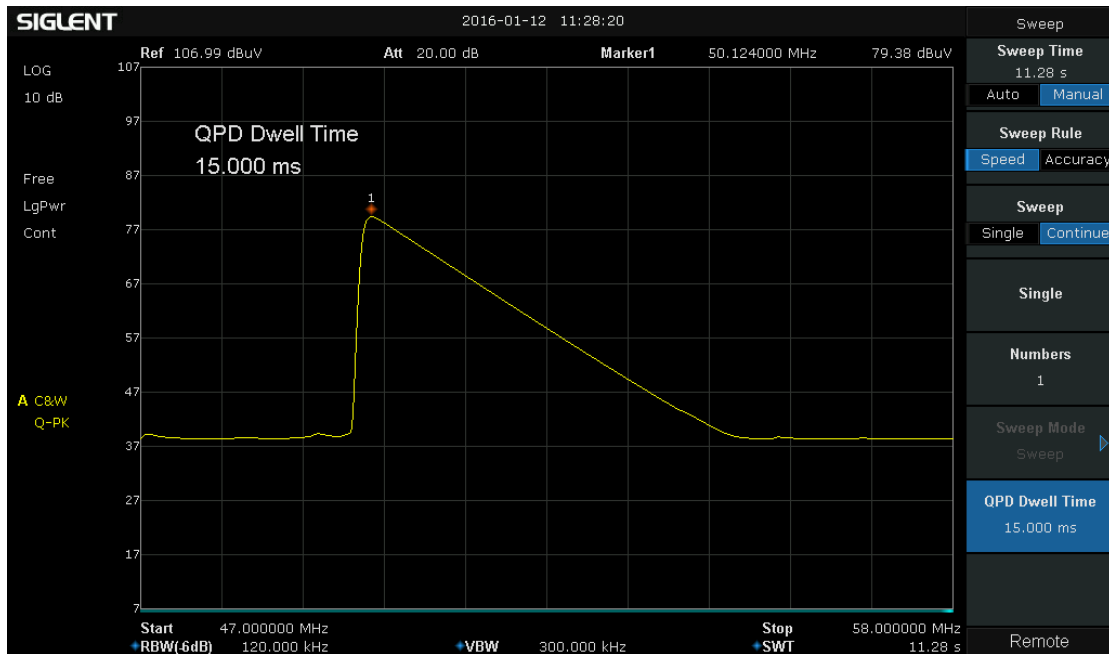
Radio communication standards maintain strict requirements for output power and adjacent channel power leakage. The optional advanced power measurement kit can measure channel power, adjacent channel power ratio, occupied bandwidth, time domain power and other parameters to ensure system performance.

Reflection measurement, acquire characteristic curve of the Return Loss



The optional reflector kit can easily measure S21, S11, and acquire characteristic curve of the Return Loss and VSWR.

EMI filter, Quasi Peak detector with limit template following CISPR 16



The optional EMI Pre-compliance Measurements Kit offers Quasi-Peak detector and EMI filters (200 Hz, 9 kHz, 120 kHz, -6 dB bandwidth). Importing stored limit templates makes it easy to evaluate EMI levels for pre-compliance testing.

Ordering Information

Product Model

SSA3032X, Spectrum Analyzer, 9 kHz~3.2 GHz

SSA3021X, Spectrum Analyzer, 9 kHz~2.1 GHz

Standard Accessories

Quick Start -1

Product Certification -1

USB Cable -1



Power Cord -1

Calibration Certificate -1

CD (Including Quick Start, Data Sheet and Application Software) -1

Optional Accessories

EMI-SSA3000X	EMI measurement Software
AMK-SSA3000X	Advanced measurement Software
Refl-SSA3000X	Reflect measurement Software
TG-SSA3000X	Tracking Generator Software
UKitSSA3X	Utility Kit: N (M) -SMA (M) cable, N (M) -N (M) cable, N (M) -BNC (F) adaptor (2 pcs), N (M) -SMA (F) adaptor (2 pcs), 10 dB attenuator
RBSSA3X20	VSWR Kit : Reflection Measurement Software(Refl-SSA3000X),directional bridge(1 MHz~2 GHz),N(M) - N(M) adapter (2 pcs)
SRF5030	Near Field Probe: H field probe (4 pcs), N (M) -SMA (M) cable, N (M) -BNC (F) probe
N-SMA-6L	N-SMA cable
N-N-6L	N-N cable
N-BNC-2L	N-BNC cable
BAG-SCC	Soft carrying bag

Model	Frequency range	Resolution bandwidth (RBW)	Phase noise	Total Amplitude Accuracy	Display average noise level (DANL)
 SSA3032X	9KHz~3.2GHz	10 Hz~1 MHz, in 1-3-10 sequence	<-98 dBc/Hz@1 GHz, 10 kHz offset	± 0.7 dB	-161 dBm/Hz, Normalize to 1 Hz (typ.)
 SSA3021X	9KHz~2.1GHz	10 Hz~1 MHz, in 1-3-10 sequence	<-98 dBc/Hz@1 GHz, 10 kHz offset	± 0.7 dB	-161 dBm/Hz, Normalize to 1 Hz (typ.)

Verkauf und technische Betreuung

mem

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