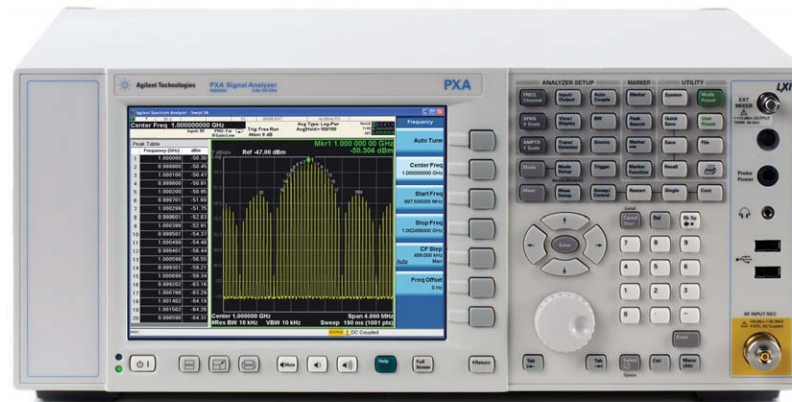


Agilent N9030A PXA Signal Analyzer

The Industry's Highest Performance Signal Analyzer

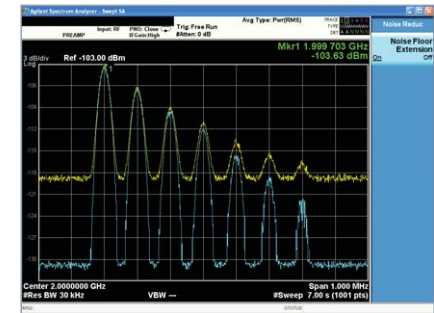


Key Features

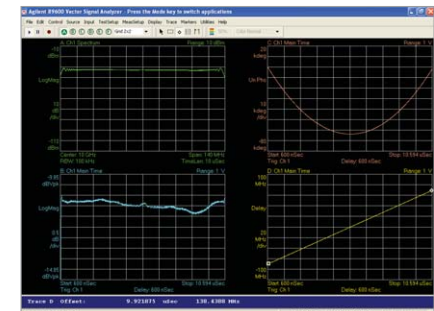
- Frequency range to 50 GHz; 325 GHz and beyond with external mixing
- Up to 75 dB spurious-free dynamic range with optional 140 MHz analysis bandwidth
- ± 0.19 dB amplitude accuracy
- -172 dBm DANL with Noise Floor Extension technology
- Advanced measurement applications plus 89600B VSA software
- Investment protection through PXA flexibility and upgradeability

Agilent's future-ready PXA signal analyzer is the evolutionary replacement for your current high-performance analyzer. It helps you sustain past achievements, enhance current designs and accelerate future innovations. Its performance, flexibility, capability and expandability enable you to address demanding applications in aerospace, defense, commercial communications and more.

Take control with the PXA signal analyzer
 – and drive your evolution.



Noise Floor Extension Technology



140 MHz Chirp at 10 GHz



Phase Noise Measurement



Agilent Technologies

Agilent N9030A PXA Signal Analyzer

Frequency ranges

3 Hz to 3.6 GHz 3 Hz to 43 GHz
3 Hz to 8.4 GHz 3 Hz to 44 GHz
3 Hz to 13.8 GHz 3 Hz to 50 GHz
3 Hz to 26.5 GHz

Analysis bandwidth

Choose from: 10 MHz (standard), 25, 40 and 140 MHz

Displayed average noise level (DANL)

-172 dBm at 2 GHz, preamplifier on
-138 dBm at 50 GHz, preamplifier off
(NFE improves DANL at 50 GHz by 6 dB)

Third-order intermodulation (TOI) distortion

+20 dBm at 2 GHz
+13 dBm at 50 GHz (nom)

Phase noise (10 kHz offset)

-129 dBc/Hz at 1 GHz
-110 dBc/Hz at 50 GHz

Amplitude accuracy

± 0.19 dB amplitude accuracy

Third-order dynamic range

115 dB at 2 GHz

W-CDMA ACLR dynamic range

-83 dBc

Resolution bandwidth

1 Hz to 3 MHz (10% steps); 4, 5, 6 and 8 MHz

Video bandwidth

1 Hz to 3 MHz (10% steps); 4, 5, 6 and 8 MHz
and wide open

Trace points

All spans, 1 to 40,001

Maximize signal insights

- Measure signals up to 50 GHz with the PXA, 325 GHz and beyond with external mixers
- Reduce measurement uncertainty with ± 0.19 dB amplitude accuracy and reveal previously hidden signals with exclusive Noise Floor Extension capability, achieving DANL = -172 dBm
- Leverage test-system software from R&D to design verification to manufacturing with 100% code compatibility across the X-Series signal analyzers
- Understand unique and complex signals with advanced measurement capabilities including phase noise, noise figure, 89600B vector signal analysis software, and MATLAB

Upgrade legacy systems

- Match previous results – core measurement use the same algorithms as other HP/Agilent signal analyzers, including the PSA and X-Series
- Highly code-compatible for easy replacement of Agilent/HP 8566 and 8568 signal analyzers and 856xE/EC spectrum analyzers
- Share a single instrument and simplify data sanitization with removable solid state drives
- Protect your investment with upgradable hardware including CPU, solid state drives, I/O, memory, and expansion slots

Increase throughput while maintaining test-system stability

- Accelerate tests, increase throughput and reduce the number of test stations with up to 70% faster test time compared to the Agilent PSA – and often even faster versus HP/Agilent 856x/859x
- Reduce measurement uncertainties and improve yield with improved speed and performance

For more information on the PXA, call your local Agilent sales representative or visit: www.agilent.com/find/PXA

www.agilent.com

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