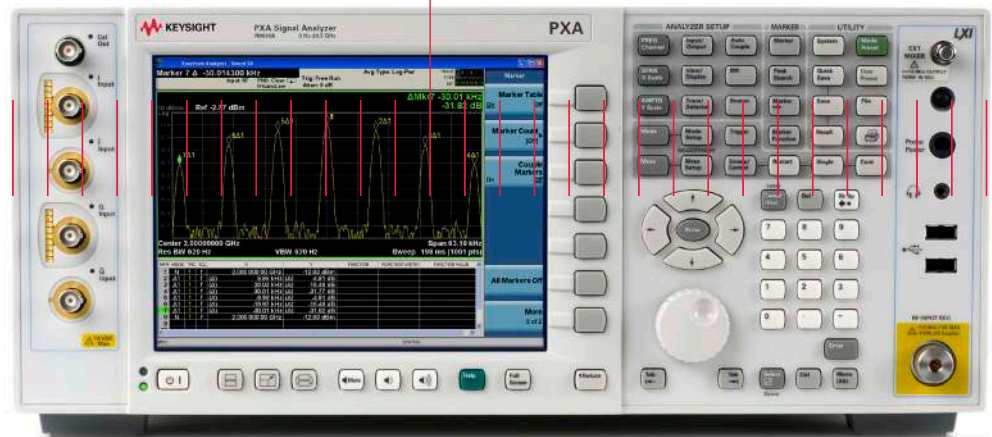


Keysight

Why Migrate from the 8566/8568 to the PXA?

Technical Overview



The N9030A PXA signal analyzer is the evolutionary upgrade from your legacy high-performance spectrum analyzer

11 Reasons to Migrate to the PXA

More performance

1. Greater sensitivity: -172 dBm/Hz DANL at 2 GHz with optional RF preamp.
2. Improved TOI (+21 dBm) and Third Order Dynamic Range (115 dB), at 2 GHz.
3. Improved close-in phase noise: -128 dBc/Hz at 10 kHz offset (1 GHz).

More capability

4. Spectrum and I/Q analysis; optional phase noise and noise figure applications; ability to run 89600 VSA software internally plus other Windows PC programs such as MATLAB for custom analyses of non-standard signals.
5. Wide analysis bandwidths up to 160 MHz available internally with outstanding flatness and SFDR performance.

More flexibility

6. Enhanced usability features such as Auto Tune, 12 available Markers, Peak Table, Limit Lines and more.
7. More high-speed connectivity options such as USB2.0 and GBit LAN for faster and convenient data throughput and remote control.
8. More convenient security procedures via an easily-removable hard disk drive for easy de-classification.
9. Scalability for the future with seven internal expansion slots and an easily upgradable CPU module.

More compatibility

10. Rear-panel analog IF and Y-axis video and fast risetime log video outputs provide functionality similar to HP 8566/8568.
11. Excellent backwards code compatibility with support for over 170 of the HP 8566/8568 remote programming commands.

Contact your Keysight sales representative or visit www.keysight.com/find/PXA for more information today.

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Drive your evolution with:

- More performance:
improved key specifications relative to the HP 8566 and 8568
- More capability:
reduce footprint by replacing multiple instruments in existing ATE
- More flexibility:
modern usability, connectivity, instrument security and scalability
- More compatibility:
highest possible level of backwards code compatibility

8566 and 8568 Spectrum Analyzer Overview

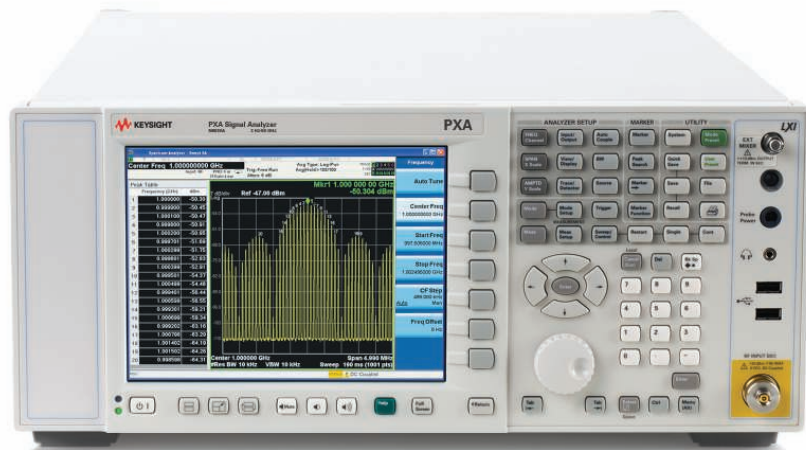
Making the transition to a new, high-performance signal analysis instrument in manufacturing, operations ATE, or R&D requires careful consideration. This document provides an overview and comparison of the new N9030A PXA signal analyzer with the legacy 8566 and 8568 spectrum analyzers for Technology Refresh purposes within existing programs and ATE systems.

First introduced in the late 1970s, Hewlett-Packard's 8566 spectrum analyzer pioneered high-performance spectrum measurements with high selectivity, sensitivity and synthesizer frequency accuracy. It also featured embedded microcomputer control and data transfer through the GPIB interface for easy output to allow remote control from an external controller for automated testing. With decades-long program lifetimes in the AD industry, many of these analyzers are still in use even today.



The legendary industry-standard spectrum analyzer

The 8566 22 GHz spectrum analyzer (and 8568 RF spectrum analyzer to 1500 MHz) served as industry workhorses in remotely-programmed ATE systems used in aerospace and defense, RF and microwave subsystem and component manufacturing, as well as in depot-level operational support. However in late 1997, the 8566B (last in the 856x Series) was discontinued and has been out of support life since November 2002. As a result, calibration and maintenance have become extremely costly or impossible, impacting overall ATE system performance and uptime.



The PXA—Keysight's highest performing signal analyzer

As the newest and highest performance addition to the Keysight Technologies, Inc. X-Series signal analyzers, the PXA is the ideal replacement for the 8566 or 8568. With models now available up to 50 GHz, the Keysight PXA is the best signal analyzer ever developed by Keysight, and gives you several major reasons to upgrade your legacy ATE system.

Drive Your Evolution

Did you know?

Keysight's instrument migration and planning services (IMPS) process can help you remove barriers for migrating your outdated test equipment to Keysight's modern instruments. The IMPS team analyzes the customer's inventory of test equipment, generates a report that summarizes production status of every model number and provides specific dates for discontinuance, obsolescence and end of support life.

Keysight also offers three follow-on services:

- Test equipment replacement engineering support
- Integrated system modernization service
- Cost of ownership analysis

For more information about Keysight's IMPS programs, please visit:
www.keysight.com/find/techrefresh

Technology refresh

Today, test managers are faced with three main choices: maintaining (continuing as is), migrating (specific instrument upgrades) or modernizing (complete redesign) of their ATE systems to take on more support tasks and improve overall reliability. Whether you are migrating or modernizing, your objectives may include reducing footprint required by the previous testers, improving the quality of test, and increasing efficiency while reducing the cost of ownership.

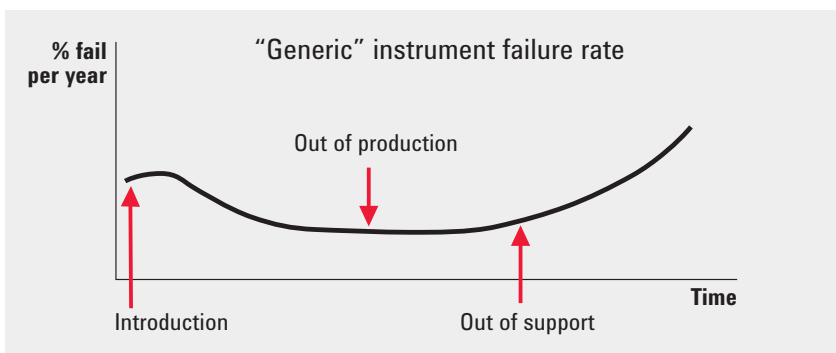


Figure 1. Instrument failure rates trend higher after obsolescence as aging effects begin to cause failure of internal electrical components, increasing your cost of ownership and impacting ATE uptime.

Many test managers also prefer much more modern and flexible instrument remote connectivity interfaces such as USB 2.0 or Gigabit LAN to take advantage of external computing capability, and to provide for increased data storage. There may also be a need for faster measurement throughput to handle more demanding test protocols.

If any of these aspects interest you, then now is the time for you consider starting a Technology Refresh cycle and making the transition to the new PXA.

Keysight offers an array of services to help you define and execute your technology refresh program.



Three approaches to technology refresh: the Keysight framework

Maintain, migrate, or modernize?

These are the primary choices facing test managers using legacy instrumentation in older-generation ATE systems.

Maintaining obsolete instruments may make sense if the anticipated useful life of the instrument asset is comparable to the program's remaining life and associated Line Replacement Units (LRU) that are supported. While the initial cost of this approach is usually lower in the short term, this strategy can become extremely costly as replacement parts or even entire spare instruments become impossible to find and calibrate. Overall ATE availability is impacted, ultimately jeopardizing mission-readiness over the long term.

Migrating to newer instrumentation is the most commonly-recommended approach if the program lifetime is expected to continue for five or more years beyond the current timeframe and the ATE system in question is of a dedicated nature. Migration entails selecting specific instruments in the system to be replaced with their modern equivalents, with minimal changes to existing test code and the system controller. In this scenario, only a subset of all Test Program Sets (TPS) needs to be re-validated, and ideally, no TPSs need to be re-written. This approach may be more costly initially than simply maintaining the existing instruments but over a multi-year period, ATE availability is greatly improved, and substantial ownership cost savings can be realized.

Modernizing may make sense if there is a broader desire to replace more than one existing legacy ATE system with a new "common-core" system, and reduce system footprint. However, this effort is very costly and is usually only executed as part of a larger, transformational initiative or major weapons program upgrade. Modernization usually involves the replacement of multiple instruments, the controller and associated test software.

Table 1. Keysight's framework for technology refresh

	Advantages	Disadvantages	Applicability
Maintain	No hardware or software changes Low risk Relatively simple Least capital expense	Higher downtime Cal and part support issues Eventually the product will go out of support	UUT/LRU production life is equal or less than ULoCA ¹
Migrate	Greater reliability Faster test Lower cost of ownership Minimum hardware and software changes	Equipment procurement cost Risk of compatibility issues Possible requalification of ATE and impacted TPSs required More complexity	UUT/LRU production life is equal or greater than ULoCA
Modernize	Greater reliability Faster test Lowest cost of ownership (excluding acquisition cost) Greatest future longevity	Most expensive Greatest risk Maximum hardware and software changes Highest complexity Typically part of major program upgrade or transformational initiative	UUT/LRU production life is much greater (or additional products will follow) than ULoCA

1. ULoCA = Useful Life of Current Asset: the expected remaining useful lifetime of an instrument used in the ATE system.

PXA Offers More Performance, Capability and Flexibility— with 8566 Code Compatibility

The Keysight PXA achieves breakthroughs in many areas, including industry-leading sensitivity and dynamic range. New Keysight innovations such as Noise Floor Extension (“NFE”—standard with the PXA), allows for up to 10 dB greater sensitivity for low-level signal measurements. A new RF front-end microcircuit design with a higher TOI point provides higher dynamic range for critical transmitter ACPR measurements. Plus, an improved LO tuning circuit design improves PXA’s close-in phase noise by nearly 40 dB relative to the 8566 for optimum performance when required.

However, this improved performance is of limited use if one must first rewrite existing test software or manual test procedures and redesign test systems to take full advantage. Keysight has made great efforts to address this issue by developing a remote language compatibility application which accepts and supports over 170 of the HP 8566/8568 remote programming commands and several major legacy instrument behaviors. This allows for a very high level of instrument emulation which can enable seamless replacement of the spectrum analyzer in your test rack.

Keysight and its authorized representatives can work with you to evaluate the PXA as a “drop-in” replacement into existing ATE systems, or as a new analyzer for your evolved common-core ATE system. With available software and hardware translation tools, there is no need to rewrite your existing test software, and TPS re-validation can be done with minimal effort before taking full advantage of the PXA’s outstanding performance.

Table 2. HP 8566/8568 versus PXA key specifications comparison at a glance

RF performance		8566/8568	PXA	Comment
Frequency range		100 Hz to 1.5 GHz (8568) 100 Hz to 22 GHz (8566)	3 Hz to 3.6 GHz (N9030-503) 3 Hz to 8.4 GHz (N9030-508) 3 Hz to 13.6 GHz (N9030A-513) 3 Hz to 26.5 GHz (N9030A-526) 3 Hz to 43 GHz (N9030A-543) 3 Hz to 44 GHz (N9030A-544) 3 Hz to 50 GHz (N9030A-550)	DC coupled
TOI	2 GHz	+7 dBm	+21 dBm	
DANL	2 GHz	–144 dBm	–152 dBm (without preamp) –165 dBm (with preamp ON)	Normalized to 1 Hz (PXA offers optional internal preamp)
3 rd Order Dynamic Range	2 GHz	100 dB	115 dB	
Frequency reference aging		2.5 x 10 ^{–7} per year	±1 x 10 ^{–7} per year	
Phase noise sidebands	1 GHz	–90 dBc/Hz	–129 dBc/Hz	At 10 kHz offset

A modern user interface and a colorful, fully-annotated display allow you to take advantage of the PXA's outstanding performance in terms of improved sensitivity, dynamic range and phase noise.

8566/8568

PXA

Figure 2. Single sideband noise screens

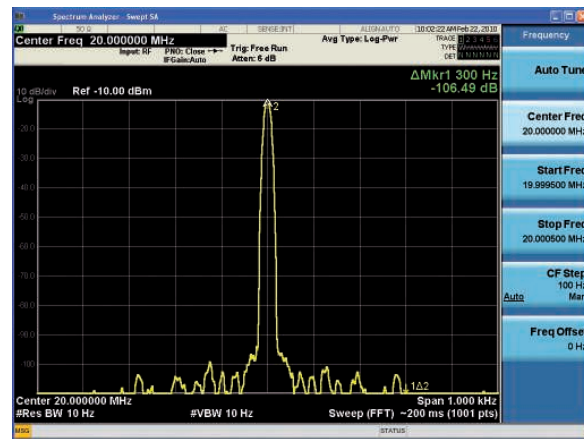
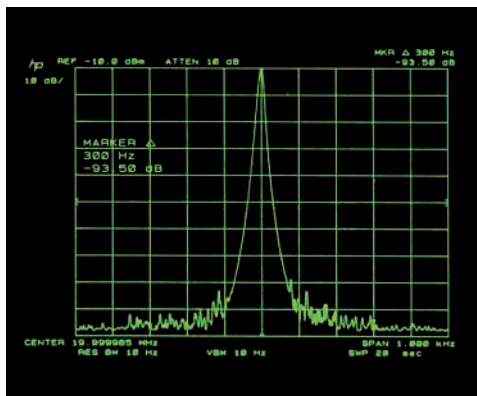


Figure 3. Multiple trace view screens

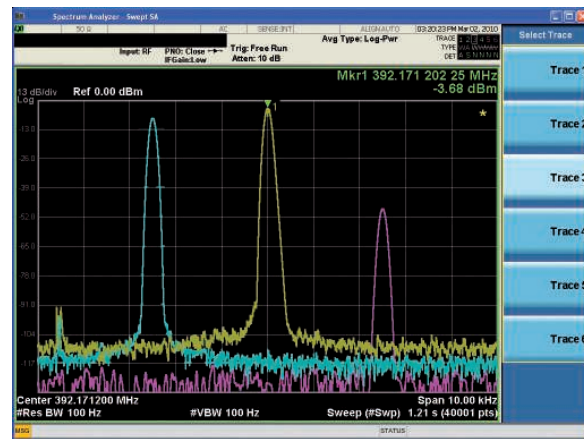
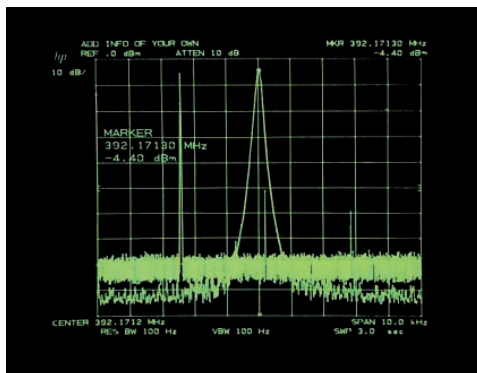
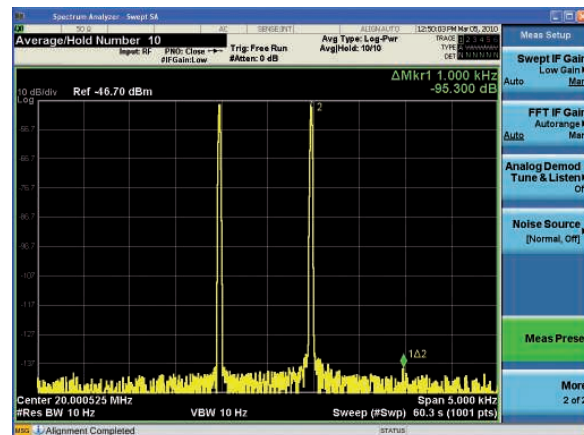
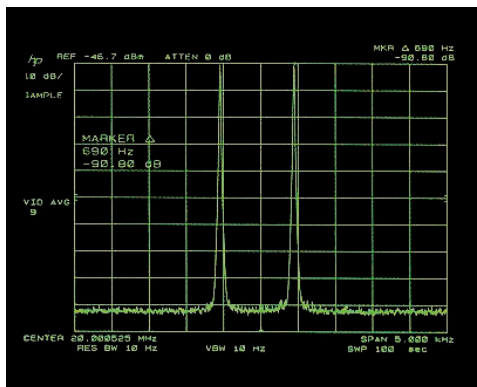


Figure 4. Two-tone intermodulation distortion screens



Migrate To the PXA and Gain These Benefits!

More effectively and efficiently meet program requirements

Substituting the PXA for your current HP 8566 or 8568 spectrum analyzer can improve your effectiveness and efficiency by reducing your ATE footprint, improving test quality, and simplifying your security procedures. Improved RF performance can also reduce your error margins and improve your yield, resulting in lower risk of mission failure.

- The PXA's absolute power measurement accuracy of ± 0.19 dB and outstanding frequency accuracy, plus support for Keysight USB power sensors and SNS Smart Noise sensors allow it to potentially replace multiple instruments in your rack: frequency counters, power meters and noise figure meters.
- The PXA can also act as a system controller, eliminating the need for an additional PC in your test rack – meaning one less PC needs to be declassified when transferring systems.
- PXA consumes 33% less volume and rack height than the 8566/8568, is 50% lighter than the 8566/8568 and consumes 30% less power. This results in substantial footprint reduction and power conservation.
- Convenient instrument security is achieved using an easily removed hard disk drive, making declassification procedures simple and straightforward. No problematic "remove the battery" memory clearing procedures are needed, which required that the legacy instrument be opened.
- PXA offers a nearly 40 dB improvement over the 8566/8568's close-in phase noise at 1 GHz, with—129 dBc/Hz at 10 kHz offsets specified to improve your test margin for this critical spec on many mission-critical voice communication sub-systems.

Improve test system longevity and reduce cost of ownership

Upgrading to the PXA will extend the life of your automated test systems and allows you to sustain your mission-readiness far into the future while reducing calibration and repair costs:

- PXA offers great scalability and longevity with upgradeable measurement hardware, such as a user-upgradeable CPU module and a field-removable hard disk drive (a solid state drive also available). Additionally, PXA's seven internal expansion slots allow ample room for future growth.
- Optional measurement personalities such as the phase noise and noise figure measurement applications are electronically licensed so that they can easily be added when needed, or transported across multiple instruments. (These capabilities were not available on the HP 8566 or 8568).
- PXA is part of the new Keysight X-Series signal analyzer family, known for its excellent reliability. These new analyzers have proven themselves since introduction with noticeable improvements in reliability and reduced cost of ownership over previous generations of HP/Keysight spectrum analyzers.

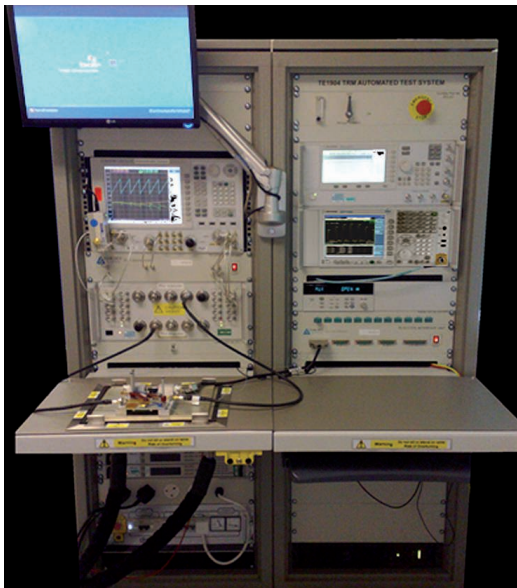


Table 3. Summary of key attributes of the 8566 versus PXA for sustainable automated testing

Features comparison	8566/8568	PXA
Instrument connectivity	GPIB	GPIB, 1000Base-T, (6) USB2.0 Type A (1) USB2.0 Type B
Instrument security	Special options and methods required	Removable hard disk drive is standard
USB power sensor support	No	Yes
SNS noise sensor support	No	Yes
Instrument controller capability	No	Yes
Upgradeability	Limited to A to B upgrade (faster microprocessor); product discontinued Nov. 1, 1997; out of support Nov. 1, 2002	Seven internal expansion slots; upgradeable CPU module; removable hard disk drive; optional solid state drive

Achieve seamless migration

Reduce your transition risk with the PXA: the most code-compatible replacement for your existing HP 8566 or 8568. PXA is the most feature-rich, form, fit and functional replacement for your existing 8566/8568 with over 170 GPIB commands supported, plus behavioral compatibility in seven key areas.

For remotely-programmed applications, PXA leverages and extends Keysight's previous-generation high performance analyzer's remote language compatibility application (Keysight PSA spectrum analyzer: E4440A Option 266). Originally developed for HP/Keysight 856X Series emulation, the N9061A remote language compatibility application for X-Series analyzers has been enhanced with support for the most common HP 8566/8568 remote programming commands.

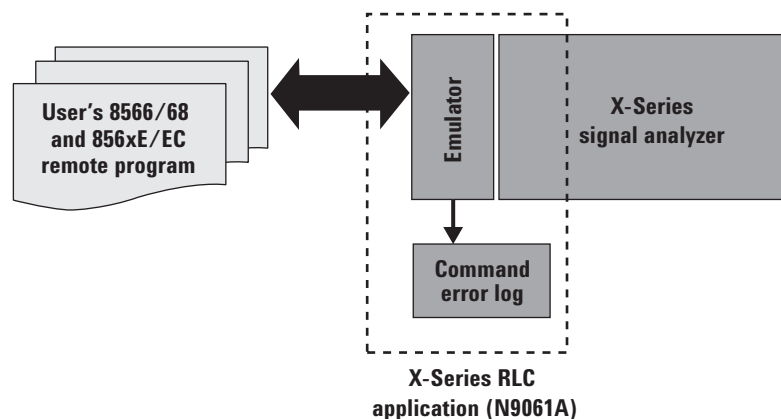


Figure 5. N9061A remote language compatibility application for legacy GPIB command compatibility with HP 8566/68 and 856xE/EC spectrum analyzers

Achieving code compatibility (with the N9061A remote language compatibility application)

A critical aspect of any technology refresh project involving instrument migration is maintaining true, backwards code compatibility so that costly rewriting of test software can be avoided. However, code compatibility entails much more than simply being able to “swallow” legacy GPIB commands. It also means being able to mimic or emulate the old instrument’s behavior, such as sweep modes, coupling of key parameters like RBW, video bandwidth, and even in some cases to the point of undocumented features that may have existed in the original instrument. Keysight has taken steps to make the PXA (with its N9061A Option 1FP remote language compatibility application) operate as close to the 8566/8568 as possible in the following key areas:

- IDN? string return value
- Instrument preset conditions
- Sweep type rules (FFT versus Swept)
- Sweep time limit settings
- Step attenu offset 10 dB
- RBW setting ranges
- VBW setting ranges
- AC/DC coupling behavior
- Detector type settings
- Trace types
- Marker functions

In all, 178 of the HP 8566/8568 legacy GPIB commands are recognized and supported (as of February 2010) in the N9061A-1FP remote language compatibility application.

Keysight is committed to providing you with a smooth transition from your legacy testers to the new PXA and other X-Series signal analyzers. In cases where additional 8566 or 8568 remote emulation is required, there are several options available to help: Keysight, through its factory and local field-based application engineering resources as well its channel partners can provide specialized command translators and tools to make the PXA function seamlessly within your existing test environment.

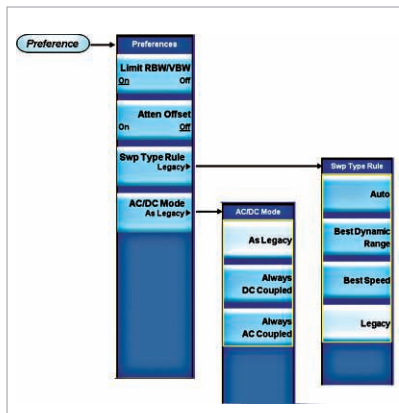


Figure 6. Setting emulation behavior preferences via the “preferences” menu allows the PXA to more completely mimic the 8566/8568 operation.

Timestamp	Type	Message (1 to 16 of 16)
14:53:49:625	Cmd Error	At 0:MKK
17:20:49:546	Cmd Error	At 4:DLB EN
17:20:59:625	Cmd Error	At 0:GRAT ZERO
17:20:59:625	Cmd Error	At 5:GRAT ZERO
17:30:53:656	Cmd Error	At 0:TM TRIGGER;
17:30:53:656	Cmd Error	At 3:TM TRIGGER;
10:30:13:625	Cmd Error	At 0:SINGLE
10:30:24:265	Cmd Error	At 0:SINGLE
10:30:56:796	Cmd Error	At 0:SIGLS;TS
10:31:42:625	Cmd Error	At 0:SIGLS
10:31:48:109	Cmd Error	At 0:SIGLS
10:32:57:765	Cmd Error	At 0:SIGLS
11:10:45:984	Cmd Error	At 0:GRAT ZERO
11:10:45:984	Cmd Error	At 5:GRAT ZERO
11:34:05:328	Cmd Error	At 0:mk -3db
11:34:05:328	Cmd Error	At 3:mk -3db

Figure 7. The N9061A remote language compatibility application for the HP 8566/8568 (and 856x Series) provides extensive command error logging functions to facilitate instrument migration. Command error reports can be quickly generated by activating this feature during run-time execution of TPSs. The reports can then be sent to Keysight for review and assessment of the best way to achieve full compatibility.

PXA analog and auxiliary IF outputs

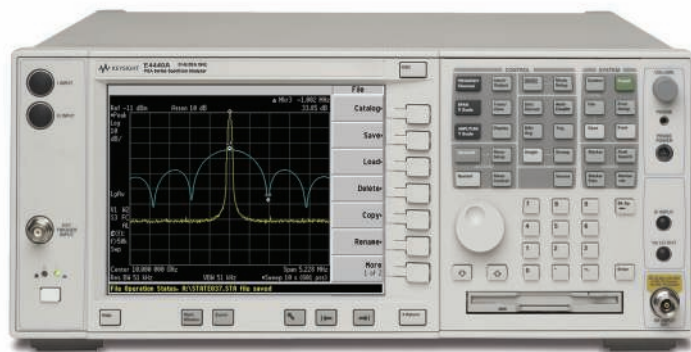
PXA offers analog and auxiliary IF output options that mimic the key optional Y-axis analog and IF output capabilities sometimes used on the PSA and earlier legacy analyzers such as the HP 8566:

- For analog monitoring of signal envelopes:
 - Optional Y-axis video output with screen video, linear, or log video output capability (Option YAV)
- For narrowband applications:
 - Optional user-programmable IF output to closely approximate the 8566's optional 21.4 MHz IF output (PXA's IF output is programmable in frequency from 10 to 75 MHz, in 500 kHz increments) (Option CRP)
- For wideband applications:
 - Optional fast rise time log video output for custom applications where wideband external envelope and video detection is desired (Option ALV)
 - Optional second IF output with a nominal bandwidth > 160 MHz where external wideband complex demodulation is needed (Option CR3)

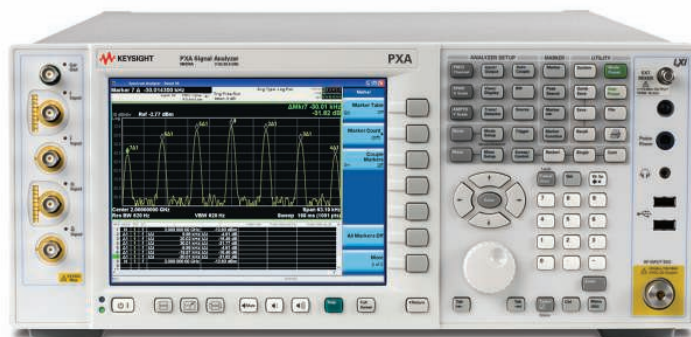
If you are already considering updating your 8566/8568 spectrum analyzer with a PSA, the PXA is the exact same height (4RU) and width as the PSA, and consumes approximately 33% less rack space than the 8566/8568 (based on volume and rack height). The PXA is also 50% lighter and consumes far less power than the 8566/8568.



8566/8568 spectrum analyzer



PSA E4440 Series spectrum analyzers



PXA consumes less rack space and less power than the 8566/8568 and has the same rack height and width as the PSA (all instrument photos are to scale)

PXA Signal Analyzer

Flexibility for today and upgradability for tomorrow

The PXA's usability, connectivity, security and scalability help to ensure a long-lived, high return on your investment. As a member of Keysight's X-Series analyzers, the PXA offers modern usability features and connectivity provided by a Windows XP Professional operating system running on a fast and upgradable Intel dual-core processor module.

Enhanced usability

PXA offers all of the popular new X-Series analyzer user interface features such as 12 Markers with flexible modes and references, Peak Table for convenient tabular display of peaks, Marker Table for full marker readouts, advanced Trace Math, and Delta Band-Power Markers. These features allow easy characterization of complex modulated or multi-tone signals. Productivity features like Auto Tune improve user efficiency by rapidly optimizing the analyzer's frequency, span and amplitude level for on-screen viewing and measurement of signals. User-definable limit lines and amplitude corrections are

now available, and Power-Suite has been enhanced with one-button measurements for TOI and Harmonics.

Additionally, detailed built-in and context-sensitive help information including the SCPI command syntax for a specific function key is available at the touch of the Help button. Thus, you can rapidly construct your ATE code per the manual hardkey/softkey keystroke sequence by simply cutting and pasting the commands into a text file or MS-Word document for transfer into your program editor. No more wading through extensive paper manuals to find obscure programming commands.

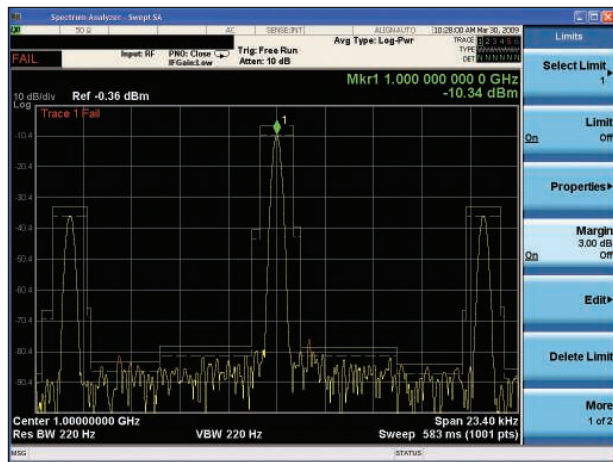


Figure 8. The PXA's limit lines show where the signal exceeds prescribed limits including an allowance margin

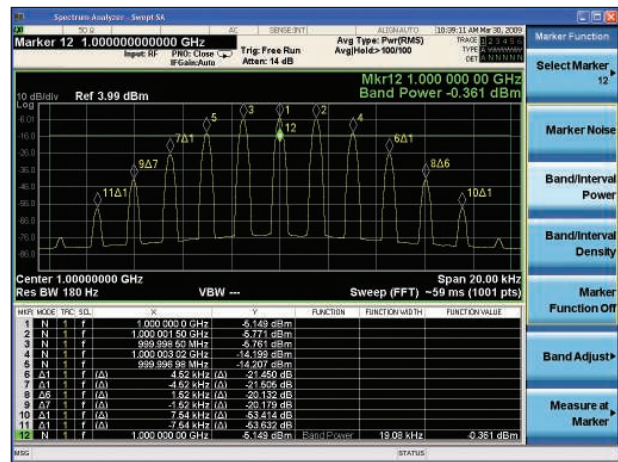


Figure 9. The PXA provides up to 12 arbitrary delta markers that are fully configurable relative to each other or across different traces

Modern connectivity

For connectivity to external controllers, PXA offers a variety of high-speed interfaces such as seven USB 2.0 ports, and GigaBit (1000Base-T) ethernet LAN in addition to classic GPIB.

Convenient security

Convenient instrument sanitization procedures are enabled with an easily-removable hard disk drive for fast swapping with non-classified hard disk units when needed.

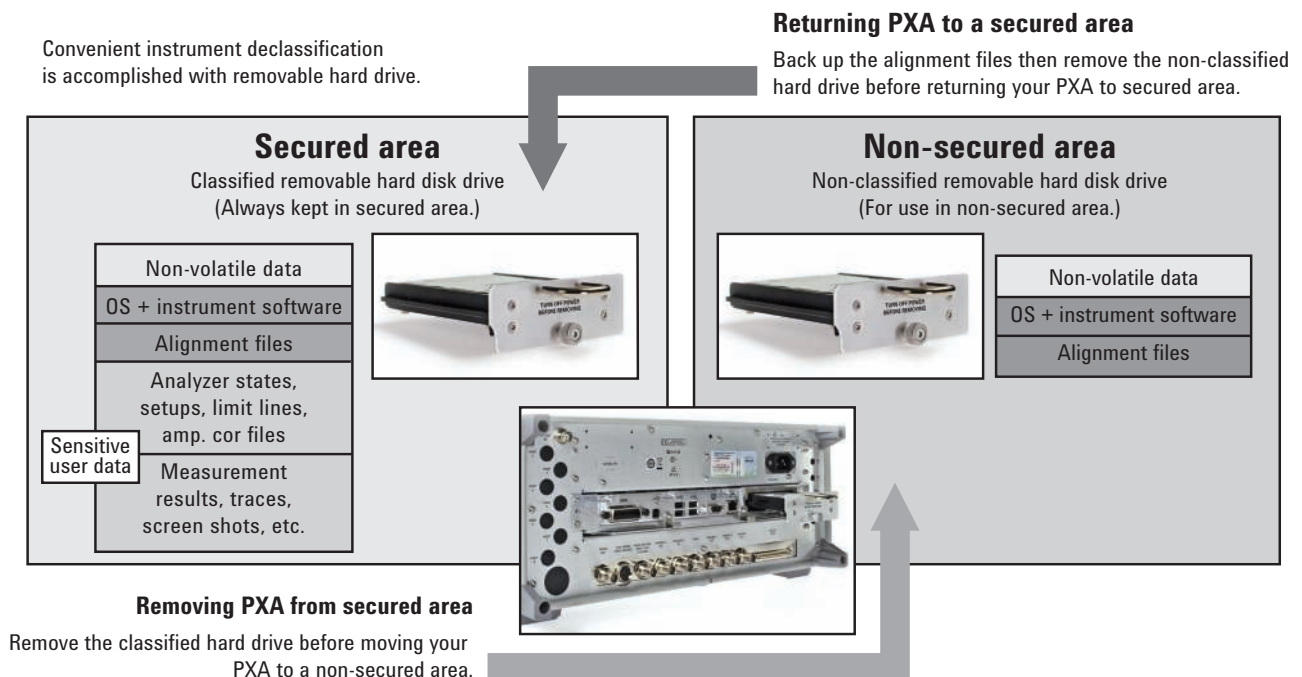
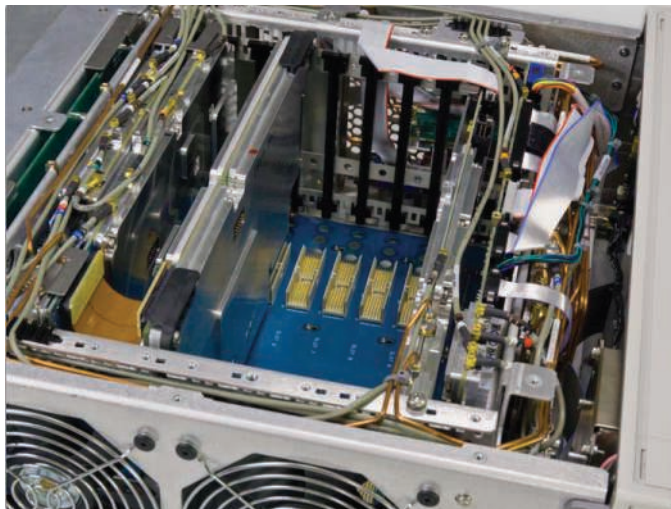


Figure 10. Instrument sanitization with removable hard drive in the PXA

Scalability for future growth

With ample internal room for expansion and an easily-upgradable CPU module, the Keysight PXA signal analyzer is your best long-term investment to extend your high performance R&D bench or mission-critical automated test system far into the future.



8566/68 to PXA Summary Specifications

RF performance		8566/8568	PXA	Comment
Frequency range		100 Hz to 1.5 GHz (8568)	3 Hz to 3.6 GHz (N9030A-503)	DC coupled
		100 Hz to 22 GHz (8566)	3 Hz to 8.4 GHz (N9030A-508) 3 Hz to 13.6 GHz (N9030A-513) 3 Hz to 26.5 GHz (N9030A-526) 3 Hz to 43 GHz (N9030A-543) 3 Hz to 44 GHz (N9030A-544) 3 Hz to 50 GHz (N9030A-550)	
TOI	2 GHz	+7 dBm	+21 dBm	
	10 GHz	+5 dBm	+15 dBm	
	18.6 GHz	+5 dBm	+10 dBm	
DANL			Normal (NFE Off) LNP LNP + NFE ON	Normalized to 1 Hz BW, preamp OFF
	2 GHz	−134 dBm	−153 dBm N/A −162 dB	NFE improves noise floor by up to 10 dB in Band 0
	10 GHz	−125 dBm	−149 dBm −155 dBm −161 dBm	Option LNP applies at frequencies > 3.6 GHz
	18.6 GHz	−114 dBm	−143 dBm −151 dBm −157 dBm	
Noise sidebands/phase noise	1 kHz offset	−85 dBc/Hz	−121 dBc/Hz	1 GHz
	100 kHz offset	−105 dBc/Hz	−129 dBc/Hz	1 GHz
Amplitude accuracy	Warranted	±0.9 dB	±0.59 dB	10 MHz to 2.5 GHz includes calibrator uncertainty and frequency response
	95% confidence	N/A	±0.19 dB	
Analysis bandwidth		N / A	10 MHz (Standard) 25 MHz (Option B25) 40 MHz (Option B40) 160 MHz (Option B1X)	Internal
3 rd order dynamic range	2 GHz	100 dB	115 dB	Nominal
	10 GHz	93 dB	115 dB	Nominal
	18.6 GHz	87 dB	105 dB	Nominal
General characteristics		8566/8568	PXA	Comment
RF input(s)		Precision type N (female)	Precision type N (female)	
Operating temperature		0 to 55 °C	5 to 50 °C (standard) 0 to 55 °C (with Option SSD)	
Storage temperature		−40 to +75 °C	−40 to +65 °C	
Display		Vector monochrome CRT 153 mm (approx. 4" diagonal) viewing area	Color 1024 x 768 (resolution) X-VGA, 213 mm (8.4" diagonal) viewing area	
Rear panel outputs		Y-Axis video output (standard) Detected video output	Y-axis video output (Opt YAV)	
		21.4 MHz IF output (standard)	Aux IF output: (Opt CRP) Programmable IF output 10 to 75 MHz, 500 kHz steps	Programmable output (PXA IF output frequency is programmable)
		321.4 MHz IF output (Special Option E33/34)	Log video output (Opt ALV) or 2nd IF output (Opt CR3)	Fast risetime log video output (IF frequency 300 MHz nominal, shifts depending on PXA bandwidth options)
Operating system		Proprietary (closed)	Windows XP Pro (open)	
Connectivity		GP-IB, device only	GP-IB, device or controller (6) USB2.0, Type A (master) (1) USB2.0, Type B (device) 1000Base-T Ethernet	PXA is LXI-C compliant
On-board RAM		16 kB	2 GB (standard)	2 GB standard on PXA
Dimensions (H x W x D)		267 mm x 426 mm x 599 mm (10.5" x 16.8" x 23.6")	177 mm x 426 mm x 532 mm (7.0" x 16.8" x 20.9")	
Height dimensions in rack units		6-U total (IF/display, RF) in (2) 19 inch chassis	4-U total in (1) 19 inch chassis	Optional rack mount kit required
Power requirements		650 VA (40 VA standby)	450 watts (40 watts standby)	
400 Hz operation		Yes, Option 400	Yes, standard	
Weight		50 kg (112 lb.) total, net	22 kg (48 lb.) total, net	

For complete PXA specifications, refer to the PXA Specifications Guide, literature number N9030A-90017.

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www.keysight.com/find/mykeysight

A personalized view into the information most relevant to you.



www.lxistandard.org

LAN eXtensions for Instruments puts the power of Ethernet and the Web inside your test systems. Keysight is a founding member of the LXI consortium.



Three-Year Warranty

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More Information

Additional literature

- N9061A Remote Language Compatibility (RLC) Application, technical overview, literature number 5989-6539EN
- N9061A Remote Language Compatibility Guide, literature number N9020-90119
- PXA data sheet, literature number 5990-3952EN

Relevant web sites

- PXA migration information: www.keysight.com/find/pxa_migration
- PXA product information: www.keysight.com/find/N9030A

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