

Software Release Notes

Keysight M9391A PXIe Vector Signal Analyzer





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Version 2.1

Version 2.1.250.3 Release Date: June 2018

Enhancements

- New M9214A FPGA bits with fix for ADC dither support in C03 rev boards.
- Updates to prevent Apogee hang when doing 32 bit packing acquisitions.
- Update M9214A FPGA.
- Added input extension for setting digitizer sample size. Previously was fixed at 64 bits. User now able to select 32 bits.

Version 2.1.240.2

Release Date: March 2017

Enhancements

 New FPGA bits for M9300A, M9301A and M9350A with improved stability and support for new memory module.

Critical Fixes

- "Drive BP 10MHz Reference" checkbox is added to M9391 SFP. This is equivalent of IVI-COM's Modules.Reference.BackPlaneReferenceEnabled property.

Version 2.1.230.1

Release Date: December 2015

Critical Fixes

- Fixed interaction between applications using shared Reference or shared Synthesizer that may result in self test failures.
- Fixed triggered multi-channel record mode with 89600 VSA Software.

Version 2.1.221.0

Release Date: July 2015

Enhancements

- Added support for eight PXI VSAs in two chassis sharing a single controller. The following configurations are supported:
 - Time-synchronous multi-channel operations using independent Local Oscillators (LOs).
 - Time-synchronous and phase coherent multi-channel operations using output from a single LO routed through a V2802A LO Distribution Network to split the signal to the eight channels.
- Improved multi-channel timing synchronization performance.

Critical Fixes

 Several calibration and alignment fixes to correct timing and phase errors in multichannel operations.

Version 2.0

Version 2.0.279.0

Release Date: May 2015

Enhancements

- Updated help file, added IVI-2014 Compliance, rebranded as Keysight Technologies.
- Added support for a maximum of 4 PXI VSAs in a single chassis sharing a single controller.
- Improved multichannel timing synchronization performance.
- Added phase synchronous operation via M9301A Synthesizer sharing

capability, along with new IVI method and properties:

- Calibration2.LOLevelAlignment.AlignLoLevel
- Modulation3.BasebandPhase adjustment
- Modules.Synthesizer3.SharedRole
- Modules.Synthesizer.OutputPort
- Added Reference3.AlignExternalReferenceAnd10MHzOut method to align phase of the 10 MHz Output with the External Reference input.

Critical Fixes

 Fix to enable using Modules.Reference.ProgrammableOutputTrigger properties when sharing M9300A Reference between multiple instruments.

Version 1.2

Version 1.2.403.0

Release Date: August 2014

Enhancements

- Added support for 89600 VSA Software stepped spectrum measurement (Option 89601B-SSA).
- Added MultiChannelSync IVI interface and MultiChannel C# example to enable direct utilization of multi-channel capability. Previous 1.1.300.0 release offered multichannel support via 89600 VSA software only.
- Improved speed performance.
- Eliminated AgModularVSA IVI interface. All functionality is now accessed directly via the AgM9391 interface.
- M9214A FPGA 1.0.2.3 available Optional, not currently required for any new software features.
- M9300A FPGA 1.0.1.0 available Optional, not currently required for any new software features.

Critical Fixes

- Fix enabling Modules.Reference.ProgrammableOutputTrigger properites to take effect.
- Fixed issue causing a ReadIQData() exception after running an IF Flatness alignment.

This release is not binary compatible with prior releases of the IVI-C driver. Programs using the C/C++ IVI-C driver must be recompiled for this version of the driver. Similarly, programs compiled with this version of the driver will not be compatible with older versions of the IVI-C driver. This incompatibility is due to renumbering of attribute constants defined in the AgM9391.h include file.

M9300A-related documentation is available only after installing the M938x software, available at www.keysight.com/find/M9381A-driver. (When you run the M938x installer, you may install only the M9300A related files if you wish.)

Version 1.2.417.1

Release Date: January 2014

Enhancements

Features added for 89600 VSA Software power spectrum measurements (Option 89601B-SSA):

- Zero span measurements (power vs time)
- Sweep trigger
- IF Magnitude trigger (for gating and sweep trigger)

- Equivalent sweep time
- Enable higher Span/RBW ratios when using a 64 bit process
- Support M9000 resource manager sharing with multi-channel configurations

Critical Fixes

- Fixture Loss table is disabled but tables are no longer cleared by ResetDefaultProperties() or Reset().
- Fix to enable IF Filter alignment even when M9300A Reference module is not located in the system timing slot.

Version 1.1

Version 1.1.300.0

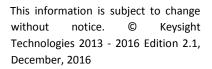
Release Date: October 2013

Enhancements

- Added multi-channel support via 89600 VSA software
- Added FFT Acquisition Mode for faster power measurements

Critical Fixes

- Fixes to improve Fixture Loss performance
- Fixes IVI Config Store to remember options and "simulate" mode Improved IF flatness calibration





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