U7233A/U7233B DDR1 Compliance Test Application Software

Keysight U7233A/U7233B Software Version 01.54

Released Date:	21 April 2017
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	06.00.00627 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series), 06.00.00627 (9000 Series)
File Name:	SetupInfDDR101540000.exe

Modifications

- Fixed tCK(avg) which not able to run successfully.

- Fixed tJit(cc) Rising Measurement test that always give a result of 1 second.

- Fixed Timing Tests which intermittently hang during Calibration of Read/Write signal.

- Fixed unexpected prompt of speed grade checking during Clock Timing Tests. It happens even though the actual and measured speed grade is same.

- Fixed tDQSS test which hangs on large DQS or DQ signal.

- Fixed tDSS and tDSH tests which take wrong the clock edge as measurement reference.

- Changed the criteria to stop folding eye diagram because of the new behavior of Eye folding on Infiniium software.

Keysight U7233A/U7233B Software Version 01.53

Released Date:	23 October 2015
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.50 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series),

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	5.50 (9000 Series)
File Name:	SetupInfDDR101530000.exe

Modifications

- Solve tWPST issue where this test is not able to locate Hi-impedance location in burst.

- Add report item for tIS/tIH tests for reporting the connected signal to the oscilloscope channel.

Keysight U7233A/U7233B Software Version 01.52.0001

Released Date:	17 October 2014
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	4.60 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series), 4.60 (9000 Series)
File Name:	SetupInfDDR101520001.exe

Modifications

- Solved "Unterminated Query" that happen on tCH and tCL tests.

- Solved the Environment Variables used in Application is should refer to the Keysight path instead of Agilent path.

Keysight U7233A/U7233B Software Version 01.52

Released Date:	03 October 2014
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	4.60 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series), 4.60 (9000 Series)
File Name:	SetupInfDDR101520000.exe

Enhancements

- Supports for Infiniium Oscilloscope Software version 5.20

Agilent U7233A/U7233B Software Version 01.51

Released Date:	15 August 2014
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	4.60 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-

	Series),
	4.60 (9000 Series)
File Name:	SetupInfDDR101510000.exe

Modifications

- Solve the Eye Diagram test where the Mask Test counter is reset when the horizontal scale value is changed in Infiniium Magneto.

Agilent U7233A/U7233B Software Version 01.50

Released Date:	30 May 2014
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., instrument software version):	4.60 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series), 4.60 (9000 Series)
File Name:	SetupInfDDR101500000.exe

Enhancements

- Supports for Infiniium Oscilloscope Software version 5.00.

Agilent U7233A Software Version 01.46

Released Date:	06 May 2014
Requirements category (e.g., operating system):	Microsoft Windows XP, Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.71 (80000 Series), 2.10 (9000 Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfDDR101460000.exe

Miscellaneous Notes

- This will be the last version to support Infiniium 80000 Series and Infiniium Oscilloscope Baseline Version 4.20.

New Features

- You can now suppress connection prompts from the user interface (see Connect tab).

- If a project opens as Read-Only and there are no settings conflicts with the current version of the app, you may use File > Save Project (Settings-Only) As menu item to extract the configuration (and no results) from that project.

- o If you create this folder:
  (Win7)C:\ProgramData\Agilent\Infiniium\Apps\<app_name>\app\scripts (WinXP) C:\Documents and Settings\All Users\Application Data\Agilent\Infiniium\Apps\<app_name>\app\scripts

- o then menu item File > Execute Script... becomes visible and enables you to pick a file to execute (e.g a.Python or Visual Basic script). Scripts in this folder may also be executed via the Automation tab or remote interface.

- HTML Report now includes probe info.

Enhancements

- Projects saved by previous versions of this application will open in read-only mode.

- Now remembers the last location when saving/opening/exporting projects/files/etc.

- Now supports .txt file extension for ARSL scripts.

- Now reports Last Test Date using international format.

- Fixed launch on Win7 for non-admin user.

- Fixed statistics display for items in the Referenced Values section.

- HTML Report "User Comments" field now preserves line breaks.

- InfiniiSim now includes new Delay option.

- New option to control jump behavior when you double-click a test name on the Select Tests tab. See View > Preferences > Report.

- Remote Interface updated to version 2.50.

- InfiniiSim now includes new Normalize Gain option.

- Fixed Connection tab "Suppress" checkbox.

- When using BitifEye BIT2100 instrument for switch matrix, now requires minimum firmware version: 3.4-1.10.

Agilent U7233A Software Version 01.45

Released Date:	22 July 2013
Requirements category (e.g., operating system):	Microsoft Windows XP, Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.71 (80000 Series),

	2.10 (9000 Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfDDR101450000.exe

Enhancements

- Support for MSOX90000.

Agilent U7233A Software Version 01.44

Released Date:	22 May 2013
Requirements category (e.g., operating system):	Microsoft Windows XP, Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.71 (80000 Series), 2.10 (9000 Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfDDR101440000.exe

Modifications

- Solve Automation issue that makes application use the wrong data rate information for measurement.

- Solve Eye Diagram Test issue where accumulated waveform on the screen is cleared after the test finish.

- Correction on the error message of tIS and tIH tests which show the wrong threshold value.

- Solve tLZDQ and tLZDQS tests for LPDDR that take the wrong clock edge for tests reference.

Agilent U7233A Software Version 01.43

Released Date:	22 July 2013
Requirements category (e.g., operating system):	Microsoft Windows XP, Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.71 (80000 Series), 2.10 (9000 Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfDDR101430000.exe

Modifications

- Eye Diagram Test only report one waveform on the result image instead of reporting accumulated waveform.

- Vih(ac), Vih(dc), Vil(ac), Vil(dc) tests is not successful if the signal's pulse is far apart.

- Eye diagram is not successful for the next trial if user uses different PUT.

- Vih(ac), Vih(dc), Vil(ac), Vil(dc) not able to run for PUT is Data Mask.

- Project loading issue: load default test limit set instead of saved test limit set.

- LPDDR1 tDQSCK: test use the wrong clock edge as reference of tDQSCK test.

- SlewR test unable to run successfully.

- Connection tab show connection to Channel-1 while select PUT as Address/Command for Electrical Single Ended Tests.

- Solve SlewF test issue which performs measurement on rising Edge.

Agilent U7233A Software Version 01.42

Released Date:	01 October 2013
Requirements category (e.g., operating system):	Microsoft Windows XP, Microsoft Windows 7
Requirements category (e.g., instrument software version):	5.71 (80000 Series), 2.10 (9000 Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfDDR101420000.exe

Enhancements

- Upgraded framework to version 3.60 to support Window 7 platform.

Agilent U7233A Software Version 01.41

Released Date:	25 May 2011
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.71 (80000 Series), 2.10 (9000 Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfDDR101410000.exe

New Features

- Enabled the InfiniiSim de-embedding function setting of the oscilloscope.

Agilent U7233A Software Version 01.40

Released Date:	04 October 2010
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.71 (80000 Series),

	2.10 (9000 Series, 90000 Series, 90000 X-Series)
File Name:	SetupInfDDR101400000.exe

Enhancements

- Supports the Infiniium DSO-X 90000 Series High Performance Oscilloscope.

- The application will now require Microsoft's .net framework 3.5 to be installed on the scope in order to run.

- Updated the histogram measurement method in order for the application to support DSO-X 90000 series.

Agilent U7233A Software Version 01.32

Released Date:	15 April 2010
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.71 (80000 Series), 2.10 (9000 Series, 90000 Series)
File Name:	SetupInfDDR10132.exe

Modifications

- Fixed unable to load mask files with extra white space in first line.

Agilent U7233A Software Version 01.31

Released Date:	18 August 2009
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.70 (80000 Series), 2.00 (9000 Series), 1.41 (90000 Series)
File Name:	SetupInfDDR10131.exe

New Features

- Added support for various Low Power DDR1 devices.

Modifications

- Renamed name of settings in "Read and Write Separation Settings" section in Configure.

Agilent U7233A Software Version 01.30

Released Date:	26 June 2009
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.70 (80000 Series), 2.00 (9000 Series), 1.41 (90000 Series)
File Name:	SetupInfDDR10130.exe

New Features

- Added the Eye Diagram test for Read and Write cycle.

- Added the User Defined Limit feature.

- Added support for the Low Power DDR1 as per JESD209A.

- Added features to skip connection diagram prompt.

Modifications

- Improved the tDS/tDH Infinite Persistence Methodology to retrieve more data in less time and increase the test efficiency.

- Updated the reference to JESD79F.

- Modified the tAC and tDQSCK measurements to support JESD209A.

- Renamed the Advanced Debug mode to Custom mode (Set Up tab).

- Renamed 'Stop on Error' message to 'Skip Error' (Configure tab).

- Removed the High/Low State Ringing Tests.

- Removed the following tests:

    o (Optional) tDQSQ – (Infinite Persistanence Mode)

    o (Optional) tDS - Infinite Persistanence Mode

    o (Optional) tDH - Infinite Persistanence Mode

- Project files saved in earlier version can only be loaded as read-only.

Agilent U7233A Software Version 01.20

Released Date:	26 June 2009

Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.30 (80000 Series), 1.00 (90000 Series)
File Name:	SetupInfDDR10120.exe

Modifications

-   Fixed bug which caused application failed to proceed during signal calibration while running on 90000 series oscilloscope with baseline version 1.20.

Agilent U7233A Software Version 01.11

Released Date:	07 March 2008
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.30 (80000 Series), 1.00 (90000 Series)
File Name:	SetupInfDDR10111.exe

New Features

-   Added Individual threshold setting for manual "threshold setting mode" specially designed for most embedded user.

-   Added InfiniiScan Min/Max setting in the configuration page.

-   Added optional Infinite Persistence test for tDQSQ(Read-cycle test) and tDS/tDH(Write-cycle) tests. Infinite Persistence will measure setup and hold time of the respective signals and measure using the histogram mode.

-   Added configuration options for Single-Ended Signals (eg. DQS0,Gnd, /DQS0,Gnd) to provide more connection choices for the users.

-   Added tangent slew rate for the tDQSQ, tDS, tDH tests. Tangent slew rate and Nominal slew rate will be reported in the test results.

-   Added derating table measurement for tDS and tDH tests based on the tangent and nominal slew rate. Unmatched slew rate will returned "N/A" in the result table.

-   Added total measurement measured for the Timing Tests. This information will be available at test result's report.

Agilent U7233A Software Version 01.10

Released Date:	11 January 2008

Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.30 (80000 Series), 1.00 (90000 Series)
File Name:	SetupInfDDR10110.exe

New Features

- Supports the Infiniium 90000 Series High Performance Oscilloscope.

- Supports the Remote Programming Interface capability.

- Performance enhancement on all the Electrical and Timing tests.

- Enable running of all test without any connection prompt during the run in order to let the system run nightly.

Agilent U7233A Software Version 01.00

Released Date:	17 September 2007
Requirements category (e.g., operating system):	Microsoft Windows XP
Requirements category (e.g., instrument software version):	5.30 (80000 Series)
File Name:	SetupInfDDR10100.exe

Initial Release