

N6463B

Thunderbolt

Compliance Test Software

Keysight N6463B Software Version 1.12

Released Date:	5 April 2016
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	5.60.0000 (90000 Series, 90000 X-Series, 90000 Q-Series, V-Series, Z-Series)
Requirements category (e.g., minimum J-BERT B firmware version):	7.10
TenLira test script version	TBT-TPA-UH: - Host: Host Test Script Version 1.20 - Device: Device Test Scripts Version 1.2 TBT-TPA-UHG2 - Host: Thunderbolt Test Scripts Version 1.1 - Device: Thunderbolt Test Scripts Version 1.11
Reference	Thunderbolt™ Interconnect Specification Revision 1.0 Thunderbolt Electrical Host \ Device Compliance Test Specification Version 1.0
File Name:	SetupInfTBT01120000.exe

New Features

- Supports Infiniium Oscilloscope Software version 5.60.
- Supports Infiniium Oscilloscope Software version 5.60 for V-Series oscilloscope.

Modification

- Modified the “Average Number” configuration variable for Tx Platform Equalization Test from “Debug” mode only to “Compliance” mode.

Bug Fixes

- Fixed the display SICL command error when running in Infiniium 4.60 or below.
- Fixed the issue of undefined header when running the Thunderbolt Compliance Application without the EZJIT, EZJIT Plus, EZJIT Complete or InfiniiSim license installed in the

- Fixed the issue of acquisition complete query issue in Tx Platform Equalization test in Infiniium 5.60 and above.

Keysight N6463B Software Version 1.11

Released Date:	10 April 2015
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	4.60 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
Requirements category (e.g., minimum J-BERT B firmware version):	7.10
TenLira test script version	TBT-TPA-UH: - Host: Host Test Script Version 1.20 - Device: Device Test Scripts Version 1.2 TBT-TPA-UHG2 - Host: Thunderbolt Test Scripts Version 1.1 - Device: Thunderbolt Test Scripts Version 1.11
Reference	Thunderbolt™ Interconnect Specification Revision 1.0 Thunderbolt Electrical Host \ Device Compliance Test Specification Version 1.0
File Name:	SetupInfTBT01110000.exe

New Features

- Supports Infiniium Oscilloscope Software version 5.50.
- Supports Thunderbolt Microcontroller Gen2 (TBT-TPA-UHG2) from Wilder Technologies.
- Supports equalization automation with the Thunderbolt Microcontroller Gen2 (TBT-TPA-UHG2) from Wilder Technologies.

Modification

- Remote Interface updated to version 3.40. For more information, see Keysight's N5452A Remote Programming Toolkit (www.keysight.com/find/scope-apps).

Bug Fixes

- Fixed the issue of application error when running the application in MSO and ZSO Infiniium oscilloscope.
- Fixed the issue of different graphs displayed in the Tx Jitter tests in Infiniium 5.00 and above.
- Fixed the issue of no full screen jitter plot displayed in the Tx Jitter tests in Infiniium 5.00 and above.
- Fixed the issue of mask and histogram in the Tx Eye Diagram tests with Infiniium Oscilloscope Software Version 5.00 and above.

- Fixed the issue of InfiniiSim window displayed in the report screenshot in Infiniium 5.00 and above.

Agilent N6463B Software Version 1.10

Released Date:	2 June 2014
Requirements category (e.g., operating system):	Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	4.60 (90000 Series, 90000 X-Series, 90000 Q-Series, Z-Series)
Requirements category (e.g., minimum J-BERT B firmware version):	7.10
TenLira test script version	TBT-TPA-UH: - Host: Host Test Script Version 1.20 - Device: Device Test Scripts Version 1.2
Reference	Thunderbolt™ Interconnect Specification Revision 1.0 Thunderbolt Electrical Host \ Device Compliance Test Specification Version 1.0
File Name:	SetupInfTBT01100000.exe

New Features

- Supports Infiniium Oscilloscope Software version 5.00.
- Supports Infiniium Oscilloscope Software version 4.60 for 90000 Z-Series oscilloscope.
- New Help > Support > Collect Files menu item simplifies collecting files needed by Agilent support engineers.

Modification

- Minimum Infiniium Oscilloscope Software updated to version 4.60.

Agilent N6463A Software Version 1.03

Released Date:	2 May 2014
Requirements category (e.g., operating system):	Microsoft Windows XP Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	4.20 (90000 Series, 90000 X-Series, 90000 Q-Series)
Requirements category (e.g., minimum J-BERT B firmware version):	7.10
TenLira test script version	TBT-TPA-UH: - Host: Host Test Script Version 1.20 - Device: Device Test Scripts Version 1.2
Reference	Thunderbolt™ Interconnect Specification Revision 1.0 Thunderbolt Electrical Host \ Device Compliance Test Specification Version 1.0
File Name:	SetupInfTBT01030000.exe

New Features

- Supports user configurable screenshot image size for report item via “Screenshot Image Size” configuration variable under debug mode. Please refer to Programmer’s Reference for more details (see Help > Remote Interface).
- Add screenshot for Tx Low-Frequency Deterministic Jitter test.
- New Help > Support > Collect Files menu item simplifies collecting files needed by Agilent support engineers.

Modification

- InfiniiSim now includes new Normalize Gain option.
- When using BitifEye BIT2100 instrument for switch matrix, now requires minimum firmware version: 3.4-1.10.
- Remote Interface updated to version 2.50. For more information, see Agilent’s N5452A Remote Programming Toolkit (www.agilent.com/find/scope-apps).

Bug Fixes

- Fixed Connection tab "Suppress" checkbox.

Miscellaneous Notes

- This will be the last version to support Infiniium Oscilloscope Software Version 4.20.

Agilent N6463A Software Version 1.02

Released Date:	22 November 2013
Requirements category (e.g., operating system):	Microsoft Windows XP Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	4.20 (90000 Series, 90000 X-Series, 90000 Q-Series)
Requirements category (e.g., minimum J-BERT B firmware version):	7.10
TenLira test script version	TBT-TPA-UH: - Host: Host Test Script Version 1.20 - Device: Device Test Scripts Version 1.2
Reference	Thunderbolt™ Interconnect Specification Revision 1.0 Thunderbolt Electrical Host \ Device Compliance Test Specification Version 1.0
File Name:	SetupInfTBT01020000.exe

New Features

- Supports for Thunderbolt Electrical Host \ Device Compliance Test Specification Version 1.0.

Agilent N6463A Software Version 1.01

Released Date:	4 November 2013
Requirements category (e.g., operating system):	Microsoft Windows XP Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	4.20 (90000 Series, 90000 X-Series, 90000 Q-Series)
Requirements category (e.g., minimum J-BERT B firmware version):	7.10
TenLira test script version	TBT-TPA-UH: - Host: Host Test Script Version 1.20 - Device: Device Test Scripts Version 1.2
Reference	Thunderbolt™ Interconnect Specification Revision 1.0 Thunderbolt Electrical Host \ Device Compliance Test Specification Version 0.91
File Name:	SetupInfTBT01010000.exe

New Features

- Supports Infiniium Oscilloscope Software version 4.20 for 90000 Q-Series oscilloscope.
- Supports for Thunderbolt Electrical Host \ Device Compliance Test Specification Version 0.91.
- Supports user configurable signal pattern checking by validating the pattern length via “Pattern Check” configuration variable. Please refer to Programmer’s Reference for more details (see Help > Remote Interface).
- Supports Tx Platform Equalization test for device DUT.

Modification

- The following test methodology are updated according to the Thunderbolt Electrical Host \ Device Compliance Test Specification:
 - Tx Platform Equalization
 - Tx Unit Interval, Mean
 - Tx SSC Down Spread Deviation
 - Tx Eye Diagram
- Remove all the informative tests that do not include in the Thunderbolt Electrical Host \ Device Compliance Test Specification.

- Update the name of the test by removing all symbols from the test name to consistent with the test naming in the Thunderbolt Electrical Host \ Device Compliance Test Specification.
- Remove the option of “JBERT N4903A” from the crosstalk generator choices.
- Change the JBERT crosstalk calibration outputs from the Clock output to the Trigger/Reference Clock output.
- Modify the skew calibration method for more repeatability calibration result.
- Change the aggressor calibration amplitude value from 1400mV to 800mV.
- Split the Tx Unit Interval, Mean test into Tx Unit Interval Mean, Min test and Tx Unit Interval Mean, Max test.
- Preserves line breaks for “User Comments” field in HTML report.
- Includes new Delay option in InfiniiSim.
- New option to control jump behavior when user double-click a test name on the Select Tests tab. See View > Preferences > Report.
- Remote Interface updated to version 2.40. For more information, see Agilent’s N5452A Remote Programming Toolkit (www.agilent.com/find/scope-apps).

Agilent N6463A Software Version 1.00

Released Date:	17 June 2013
Requirements category (e.g., operating system):	Microsoft Windows XP Microsoft Windows 7
Requirements category (e.g., minimum instrument software version):	4.20 (90000 Series, 90000 X-Series)
Requirements category (e.g., minimum J-BERT A firmware version):	4.02
Requirements category (e.g., minimum J-BERT B firmware version):	7.10
TenLira test script version	TBT-TPA-UH: - Host: Host Test Script Version 1.20 - Device: Device Test Scripts Version 1.2
Reference	Thunderbolt™ Interconnect Specification Revision 0.9
File Name:	SetupInfTBT01000000.exe

Initial Release