

Keysight x1149 Boundary Scan Analyzer Software Release 2.0.1.51

System Requirement

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|--------------------|--|
| Release Date | February 27, 2023 |
| Platform | Windows 10 Professional (64-bit) Windows 11 Professional (64-bit) Windows 11 Enterprise (64-bit) In addition, ensure that all Windows updates are installed. |
| Hardware | Processor : Core Intel Pentium® 4 or better (minimum 1.8 GHz) Memory : Recommended 16 GB RAM (minimum 8 GB RAM) Disk space : Minimum 10 GB on the installation drive (can be Any drive), plus 1 GB on C: drive. |
| Display Properties | Minimum screen resolution : 1024 x 768 (1600x900 – R&D Verified) Color quality : Minimum 16-bit |
| Language Settings | English (United States) Chinese (Simplified) |
| License | M6800B x1149 1149.1-2013 Development License Bundle M6801B x1149 1149.1-2013 Run-time License Bundle M6802B x1149 1687-2014 Development License M6803B x1149 1687-2014 Run-time License M6804B x1149 Result Analyzer License M6806B x1149 Development Only Software Upgrade 2.0 License M6808B x1149 SVF Export License M6813B x1149 Run-time Only Software Upgrade 2.0 License |

Dear Valued Customer,

Keysight x1149 Software release 2.0.1.51 Release Notes

Keysight Technologies is pleased to introduce the latest software release 2.0.1.51 for x1149 Boundary Scan Analyzer. This release comes with new features and tools added to enhance your experience in the development, debug, and production execution of tests in line with IEEE 1149.1-2013 Standards for Printed Circuit Board Assembly (PCBA) with Boundary Scan devices. The objective is to have the flexible cost while achieving the best Boundary Scan coverage at all levels of your product life cycle.

New IEEE 1149.1-2013 Standard Support

- This new release adds support to IEEE 1149.1-2013 Standard which brings in new features at chip level :
 - Power Domain Support
 - Segmented Boundary Scan Register
 - Register Mnemonics

New Licensing Scheme for Total Software Management

- This new version of Software Release introduces a new licensing scheme on subscription basis:
 - Ensure support consistent licensing types and terms company wide across Keysight product lines.
 - Encourage customer to pay for what is only needed and promising consistent ROI.

Brand New Hardware

- Provides a new facelift hardware design with reinvigorated look in par with Keysight branding to provide the overall new customer experience using our Keysight x1149 Boundary Scan Analyzer platform.

Read a summary of the above and other new features added into this power-packed new release. For up-to-date information, please visit <http://www.keysight.com/find/x1149>. We appreciate your ongoing support and look forward to providing you with more value-added features as we continue to develop this x1149 platform.

Yours faithfully,

Yee May Koh

Product Marketing Manager

Keysight Technologies

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What's New in Keysight x1149 Boundary Scan Analyzer 2.0.1.51 Software Release

The x1149 Boundary Scan Analyzer 2.0.1.51 Software Release provides the following enhancement and new features to ensure the success of Boundary Scan test at all product life cycle from Pre-PCB Layout, Proto Built, NPI to Production Run.

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Other New Features

- Memory utilization of the software have been optimized to enhance the software performance by 60%.
- Enhancement on the i3070 environment integration through DLL

Project (.absp) Compatibility

1. Project (.absp) file is backward compatible. Project file created or opened in earlier Software Revision can be opened and used in Software Revision 2.0.1.51.
2. Auto Convert or Update .absp/.absl developed in older x1149 software versions
 - The 2.0.1.51 release will automatically convert or update absp and absl from version 1.3.x.y onwards to version 2.0.1.51 and backup the original absp and absl files.
 - Conversion automatically starts when a 1.3.x.y absp or absl is opened in x1149 2.0.1.51 Development GUI.
3. Backup file name for 1.3.x.y to 2.0.1.51:
 - The original absp or absl file will be backed up as <filename>_<date>.absp :
 - Example: For a project “digital-plane.absp”
 - Original project file will be saved into “digital-plane_28Jul2015.absp”
 - The “digital-plane.absp” will be automatically converted to 2.0.1.51 version format.
 - <date> format is DDMMYY
4. Note:
 - If conversion passes, project is automatically opened, and user will be prompted to do test regeneration. Click cancel if you wish to keep existing tests.
 - After conversion passes and project is opened successfully, always check the required action status found on bottom right corner.
 - Project files in versions earlier than 1.3.x.y are not supported in the auto conversion and backup.
 - **Previous version of BSDL will open and run without parsing in the new Software Release 2.0.1.51 unless been modified.**

Programming Compatibility

Programming tests created with software versions 1.3.0.0 or 1.3.1.0 (dated before Apr'2015) are not compatible with software version 2.0.1.51. Users are required to delete the programming test and regenerate using 2.0.1.51 software.

- For project that have been developed in the environment as mentioned above, if required action is 'Validate Data', this implies there are data validation errors found in this project.
 - **Note: Click on Project Explorer>Chain>Reconfigure Chain to see error messages, review message and fix library accordingly.**

Enhancements/Defects Fixed

| CR# | Title |
|----------|---|
| BBOX-2 | Updated SVF command count memory more than 255 per line |
| BBOX-7 | x1149 data log path for multiple projects during the Auto Load ID |
| BBOX-15 | x1149 unable to support IEEE 1149.1-2013 Standard |
| BBOX-21 | Chinese Language localization for new standards support for IEEE 1149.1-2013 |
| BBOX-26 | Updated BSDL parser to support 1149.1-2013 |
| BBOX-27 | Flexibility to view and configure Boundary Scan Registers by segmentation |
| BBOX-29 | Updated Test Program Generation for 1149.1-2013 BSDL files and selected Boundary Scan Register |
| BBOX-30 | Result analysis to generate segment information in test generation xml for IEEE 1149.1-2013 devices |
| BBOX-36 | BSDL parser evaluation between new and existing solutions |
| BBOX-34 | BBOX 2.0 License integration with Keysight PathWave License Manager and Subscription based licensing scheme |
| BBOX-71 | Out of Memory Exception |
| BBOX-75 | IEEE 1149.1-2013 Device highlighted in chain graphics |
| BBOX-91 | Software installation and upgrade adaptation |
| BBOX-345 | Integration of auto prompt browser function status on board files |
| BBOX-358 | Integration of call-executable command in User Interface Test Sequence |
| BBOX-359 | New integration of date and time warning if login page left idle for more than one hour |
| BBOX-418 | Run x1149 Sequencer Command 992 not functioning |
| BBOX-483 | Running Keysight x1149 from i3070 freeze the test |
| BBOX-489 | Test time more than one hour when board test failed |
| BBOX-553 | Unable to make changes in Test Editor when open a specific BSDL file first time upon installation |
| BBOX-567 | Unable to run existing test upon upgrading to from SW Rev 1.7 to SW Rev 2.0 unless in Admin mode |
| BBOX-568 | Upgrade SW Rev 1.7 .absp project files in BBox 2.0 without running in Admin mode |
| BBOX-609 | Bypass BSDL compilation when upgrading from SW Rev 1.7 to SW Rev 2.0 |