

i7090 In-Circuit Test Software Release Notes

i7090 01.34p Version

Released Date	November 11, 2025	
Platform Requirements	Microsoft Windows 10 Professional 64-bit, Version 22H2 Microsoft Windows 10 Enterprise 64-bit, Version 22H2 Microsoft Windows 11 Professional 64-bit, Version 23H2 Ensure all Windows updates are installed	
Hardware Requirements	Processor : Intel Core i7-13700TE Memory : Minimum 64 GB of RAM Disk space : 1TB (Minimum 10 GB, must be on C: drive)	
Display Properties	Minimum screen resolution: 1280 x 1024 pixels Color quality: Minimum 16-bit Language Setting: Must be English (United States)	
Language Settings	English (United States)	
Licenses	MP0001A	i7090_Software Base_Test Development
	MP0002A	i7090_License_Software Base_Testhead
	MP0003A	i7090_License_Test Development
	MP0004A	i7090_License_Runtime_Debug_Diagnostic
	MP0005A	i7090_License_Core Base
	MP0006A	i7090_License_Core Add
	MP0007A	i7090_License_Programming
	MP0008A	i7090_License_3RD Party Sequencer
	MP0009A	i7090_License_Advance Diagnostics
	MP0010A	i7090_License_Calibration
	MP0011A	i7090_License_Digital test
	MP0012A	i7090_License_Mixed Test
	MP0013A	i7090_License_SPI I2C Programming
	MP0014A	i7090_License_Frequency Check
	MP0015A	i7090_License_Digital Test Bundle
	MP0050A	i7090_License_Cores Add (Bundle of 6)
	MP0051A	i7090_License_Cores Add (Bundle of 10)
	MP0052A	i7090_License_Cores Add (Bundle of 14)
	MP0053A	i7090_License_Cores Add (Bundle of 4)
	KS8000B	PathWave Test Automation_Runtime (Engine Only)

NOTE

- All software must be installed to drive C, which must also be the drive where the operating system is installed.
- Disable anti-virus software before starting the installation. Otherwise, some of the components might not install properly. Remember to reactivate the anti-virus software after the i7090 software is installed.

Compatibility Statement

Existing board test programs that run on i7090 systems with earlier software releases will continue to run on software version 01.34p.



Dear Valued Customer,

Keysight i7090 In-Circuit Test Software Release 01.34p Release Notes

Keysight Technologies is pleased to introduce the latest software release version 01.34p for i7090 Massive Parallel Board Test System. This release can be installed on test systems and test development stations running Windows 10 Professional 32-bit and 64-bit operating systems.

Some of the key highlights are:

1. Supports External SMU, DIO, and Switch Instruments
2. Supports multiple Ground nodes in test development
3. API to highlight Nodes and Components in Board Viewer
4. Display Test Limits in dual format: Percentage and Calculated Value
5. Enhanced Stability for MOA Measurement Mode

For up-to-date detailed user's guide, please refer to the i7090 01.34p Online-Help Manual.

As always, I'd like to take this opportunity to thank you for your continuous support and look forward to providing you more value-added features and services.

Yours faithfully,

Dushsyant K Rajamohan
Product Manager, i7090
Keysight Technologies
dushsyant.k-rajamohan@keysight.com

New Features and Enhancements

Enhancements in the i7090 01.34p software are listed below.

CR#	Title
MPICT-621	Fixture File Type and Grid Format Correction
MPICT-619	IP Address Hardware Connection Fix
MPICT-618	Serial Number-Test Program Synchronization
MPICT-612	Legacy Analog/Hybrid Firmware Detection Support
MPICT-610	Data Log Generation Fix for Version 1.33p
MPICT-609	Correct VAM Pro Voltage Range Handling
MPICT-608	Test Editing Traceability Feature
MPICT-607	BOM Parser Jumper Value Error Handling
MPICT-604	Board Viewer Node/Component Highlight API
MPICT-603	Multiple Ground Node Support in Test Development
MPICT-602	Simplified Core Assignment for Panel Boards
MPICT-599	OS Hardening Compatibility for i7090 Application
MPICT-598	Operator Mode Desktop Icon Visibility Fix
MPICT-596	Manual Node Visibility Fix in Pins Test
MPICT-595	Pin Card Count Mismatch Error Handling
MPICT-593	Support for SMU, DIO, and Switch Instruments
MPICT-457	Exclude Unplaced Components from Coverage Report
MPICT-435	Part Number Column Support for Digital Tests
MPICT-413	Dual Format Display for Test Limits (Percentage & Actual Value)
MPICT-392	Long Probe Press Position Correction
MPICT-63	Configurable Training Header Output

Appendix B: Compatibility Matrix

Keysight i7090 Massive Parallel Test System										
Software Revision	1.10p	1.20p	1.22p	1.30p	1.31p	1.32p	1.33p	1.33pa	1.34p	Remarks
Operating System	Windows 10					Windows 10 Windows 11				
Controller Hardware	HP Engage Flex i7					HP Engage Flex Pro G2				
Software Features										
Analogue In-Circuit Test	✓	✓	✓	✓	✓	✓	✓	✓	✓	SMH Flash Runner
nanoVTEP Test Capability	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Polarity Check	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Drive Thru (nanoVTEP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
In System Programming (ISP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Diagnostics Relay	✓	✓	✓	✓	✓	✓	✓	✓	✓	
System Calibration	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Interactive Pin Locator	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Automatic Analogue Debug (Auto Debug)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Operator Interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Debug Interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	Industry 4.0 Supported Standards: IPC-CFX, Hermes, PathWave
Coverage Analysis	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Part Library Editor	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Third Party DLL	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Test Program Generator	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Multiple Board Versions	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Data Logging	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Automation Enabler	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Automatic 6 Wire Analogue ICT Test	✓	✓	✓	✓	✓	✓	✓	✓	✓	
System Configuration & Hardware Diagnostics	✓	✓	✓	✓	✓	✓	✓	✓	✓	
RS232 Control	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Hardware Features										
VAM Card	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VAM+ Card	✗	✓	✓	✓	✓	✓	✓	✓	✓	
Analogue Pin Card	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Programming Carrier Card	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DUT Power Supplies (N6700: 4 units N6733B Module)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Power Relay Card	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Compressed Air Quick Connect Tap	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Inline Board Handler	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Dual Board Staggering	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Appendix C: Software Validation Process

All software releases for i7090 have been reviewed and tested in accordance with a Software Quality and Verification Plan. This effort consists of design and code reviews; unit and regression tests; system testing, and multi-day simulated production runs. This process ensures that the software has not regressed due to enhancements or fixes implemented and continues to stay functional for the purpose of operating the i7090 within the parameters described by the product documentation.

This statement describes the high-level measures Keysight Technologies has taken to ensure continual delivery of quality products to our customers. This however, in no way supersedes any Keysight instructions or specifications for the use of the i7090 and related software release, or the terms and conditions of sale. This statement does not constitute any additional expressed or implied warranty.

