Modification Recommended Service Note

Supersedes:
E9902G-02A

Keysight i3070 In-Circuit Test System Installed with XTPB Cards

E3770A, E4025A, E4026A, E9997A, E9900A, E9997B, E9998B, E9900B, E9997D, E9998D, E9900D, E9995D, E9905E, E9905EL, E9903E, E9902E, E9901E, E9901EL, E9988EL, E9988E, E9986E, E9905G, E9903G, E9902G, E9988GL, E9998A, E9902D, E9903D, E9900E, E9995E, E9997E, E9998E, E9900G and E9998G.

Serial Numbers: ALL
Manufacturing ID Number: N/A

The Problem:

New control XTPB card firmware to adjust the delay time for relay opening, to resolve intermittent relay failures observed on pin cards while working together with XTPB cards.

Parts Required:
NONE

ADMINISTRATIVE INFORMATION

ACTION CATEGORY:	[[]] ON SPECIFIED FAILURE [x] AGREEABLE TIME	STANDARDS LABOR: 0.5 Hours			
LOCATION CATEGORY:	[X] CUSTOMER INSTALLABLE [[]] SERVICE CENTER [X] ON-SITE (active On-site contract required) [[]] CHANNEL PARTNERS	SERVICE: INVENTORY:	[[]] RETURN [[]] SCRAP [[]] SEE TEXT	USED PARTS:	[[]] RETURN [[]] SCRAP [[]] SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE		NO CHARGE AVAILABLE UNTIL: Always			
	[[]] Calibration Required [x] Calibration NOT Required	PRODUCT LINE: PL80 AUTHOR: Eric Xu			

ADDITIONAL INFORMATION:

KEYSIGHT
TECHNOLOGIES

Situation:

It is reported that certain analog powered tests may cause intermittent relay failures on double density (DD) pin cards in a i3070 system loaded with control XTPB cards.

Solution/Action:

A new firmware (version: v23122817_1) for XTPB card has been developed to address this issue. The new firmware can be downloaded from Keysight.com and the firmware update can be done by the user via DGN. Please note:

1.   This ONLY applies to i3070 MUX system with XTPB cards installed.

2.   The firmware update is independent of the system software version if it is 10.0p and above.

Upgrade Procedure:

1.   Download the latest firmware update file (XTPB_SoC_HPS_Mux.img) from
        Keysight i3070 Control XTPB card firmware update | Keysight

2.   Copy the file to C:\I3070_ICT\lib folder in the i3070 system controller after renaming the original file there.

3.   Launch DGN.

4.   Select Configuration > Programmable Card Config.

5.   Any available firmware updates will be highlighted as shown below:

```
X dgn.exe                                              —    □    ✕

Menu Select
                                    Programmable Card Configuration _____

         Mod Slot  CardName          HardwareID  Actual       Expected
         --- ----  ---------------   ----------  ----------   ----------
         3   1     Nasru             chipset     91816090_1   91816090_1
         3   6     ControlXTPB       Seq FPGA    17092817_3   17092817_3
                                     SoC HPS     23030809_1   23122817_1  *
                                     SoC FPGA    17101017_1   17101017_1

Update  Goto   Halfway  Previous  dgn.exe      Next   Halfway  Goto   Exit
All     Start  to Start Page                   Page   to End   End
```
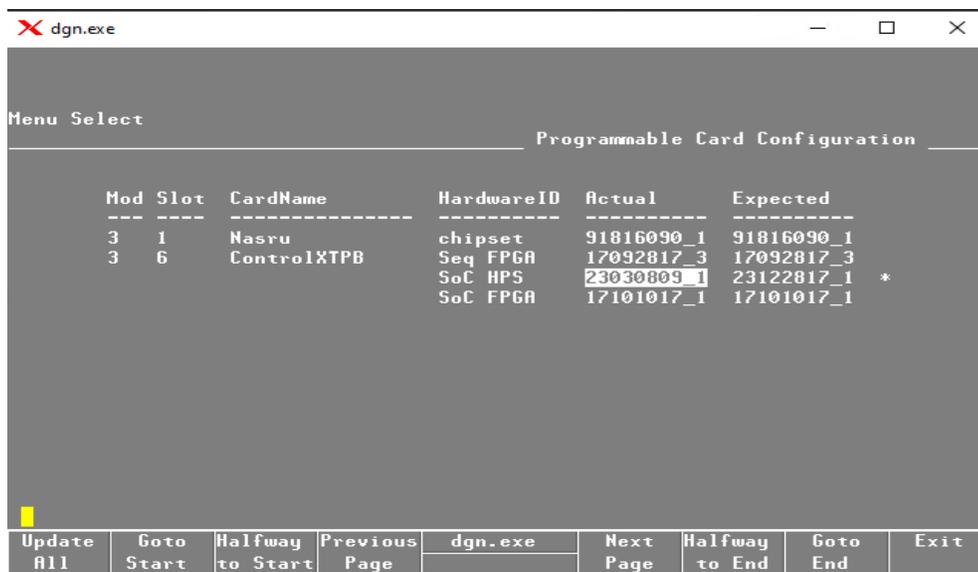
6.   Select Configuration > Programmable Card Config.

7.   Select "Update All" to begin the update.

8.   Whenever the User Account Control dialog box appears, select "Yes" to allow the system to proceed.

9.   When installation is completed, reboot the testhead.

Revision History:

Date	Service Note Revision	Author	Reason for Change
5 Mar 2024	01	Eric Xu	Revising service note number for ease of customer search