i3070 Control XTP card firmware download and installation guide

i3070 ICT system

1. Download the following firmware update zip files (XTPB_SoC_HPS_Firmware.zip) from Keysight.com.

2. Unzip the file, which contains the following 4 files:

   XTPB_SoC_HPS_Mux.img   SHA256SUM of XTPB_SoC_HPS_Mux_img

   XTPB_SoC_HPS_UnMux.img   SHA256SUM of XTPB_SoC_HPS_UnMux_img

3. Depending on the system type Mux or UnMUx, choose the first or second set of files. The following steps (4-6) is an example for Mux system, while the procedure is the same for UnMux system.

4. Open Windows Command Prompt and run command "certutil -hashfile PathOfFirmwareFile\XTPB_SoC_HPS_Mux.img SHA256" to calculate the SHA-256 checksum.
   Example:

   ```
   D:\ShareFolder\Temp>certutil -hashfile XTPB_SoC_HPS_Mux.img SHA256
   SHA256 hash of XTPB_SoC_HPS_Mux.img:
   c38fd3e2fc80318a6b6cf0ef0066ca1bef140e51160fb8168c2c634cb8e7971d
   CertUtil: -hashfile command completed successfully.
   ```

5. If step 4 doesn't work, open PowerShell and run command "Get-FileHash .\XTPB_SoC_HPS_Mux.img -Algorithm SHA256" to calculate the SHA-256 checksum.
   Example:

   ```
   PS D:\ShareFolder\Temp> Get-FileHash .\XTPB_SoC_HPS_Mux.img -Algorithm SHA256

   Algorithm       Hash                                                              Path
   ---------       ----                                                              ----
   SHA256          C38FD3E2FC80318A6B6CF0EF0066CA1BEF140E51160FB8168C2C634CB8E7971D   D:\ShareFolder\Temp\XTPB_SoC_...

   PS D:\ShareFolder\Temp>
   ```

6. Verify the result against the download "SHA256SUM" file, make sure they are exactly the same before proceeding to next step.
   Example:

   ```
   SHA256SUM                          ×     +

   File    Edit    View

   SHA256 hash of XTPB_SoC_HPS_Mux.img:
   c38fd3e2fc80318a6b6cf0ef0066ca1bef140e51160fb8168c2c634cb8e7971d
   CertUtil: -hashfile command completed successfully.
   ```

7. Copy the respective XTPB_SoC_HPS_Mux.img or XTPB_SoC_HPS_UnMux.img file to "C:\I3070_ICT\lib" folder in the i3070 system controller after renaming the original file there.
8. Launch DGN.
9. Select Configuration > Programmable Card Config.
10. Any available firmware updates will be highlighted.
11. Select "Update All" to begin the update.
12. Whenever the User Account Control dialog box appears, select "Yes" to allow the system to proceed.
13. When installation is completed, reboot the testhead.