

Application Note: Procedure to update
the firmware (U18)
on DT-4096 board.



Version: 1.00

Date: 13-May-2022

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Revision History

Date	Rev No.	Page	Summary
13 May 2022	1.00	All	First issued

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1 Introduction

The DT-4096 controller is an easy to use high quality HDMI & Displayport input interface for LCD panels up to 4096x2160 resolution.

One of the features of the DT-4096 is the ability to update its firmware as detailed in this Application Note.

IMPORTANT NOTE: Firmware Upgrading must only be done by suitably qualified professionals or technicians. Digital View is not responsible for damage or injury caused by the firmware upgrade procedure.

2 Firmware Upgrade procedure

DT-4096 firmware upgrade can be done using a dedicated USB programming interface available from DigitalView this connects to the HDMI input on the DT-4096.

Before upgrading the firmware, please prepare the following items:

- PC with Windows 7 / 10 / 11 operating system installed.
 - The relevant firmware upgrade program - RTD Customer Tool V3.5 or up revision, this is available from your local Digital View office.
 - External programming board (P/N 411102600-3)
 - HDMI cable
 - USB cable (one side in type-A connected to PC, and another side in mini-USB connected to programming board)
 - Firmware bin file
-
- DT-4096 to be upgraded needs to be fully connected with power and a display. This should be a bench or assembly setup and care must be taken to avoid short circuits or electrical shock. **Digital View does not accept responsibility for damage caused during a firmware upgrade procedure** – care must be exercised

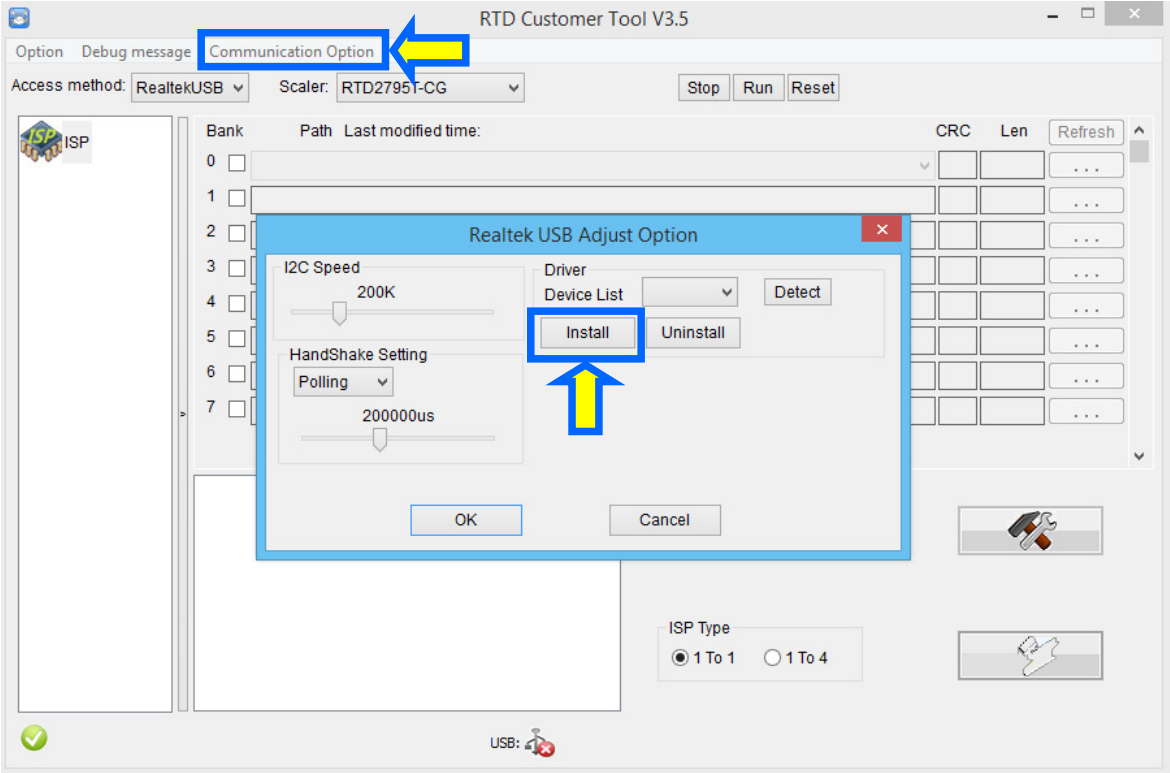
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<Step 4> For first time running the “RTD Customer Tool” program, please install USB driver by choosing “Communication Option” → press “Install” button in driver section as depicted in the image shown below.



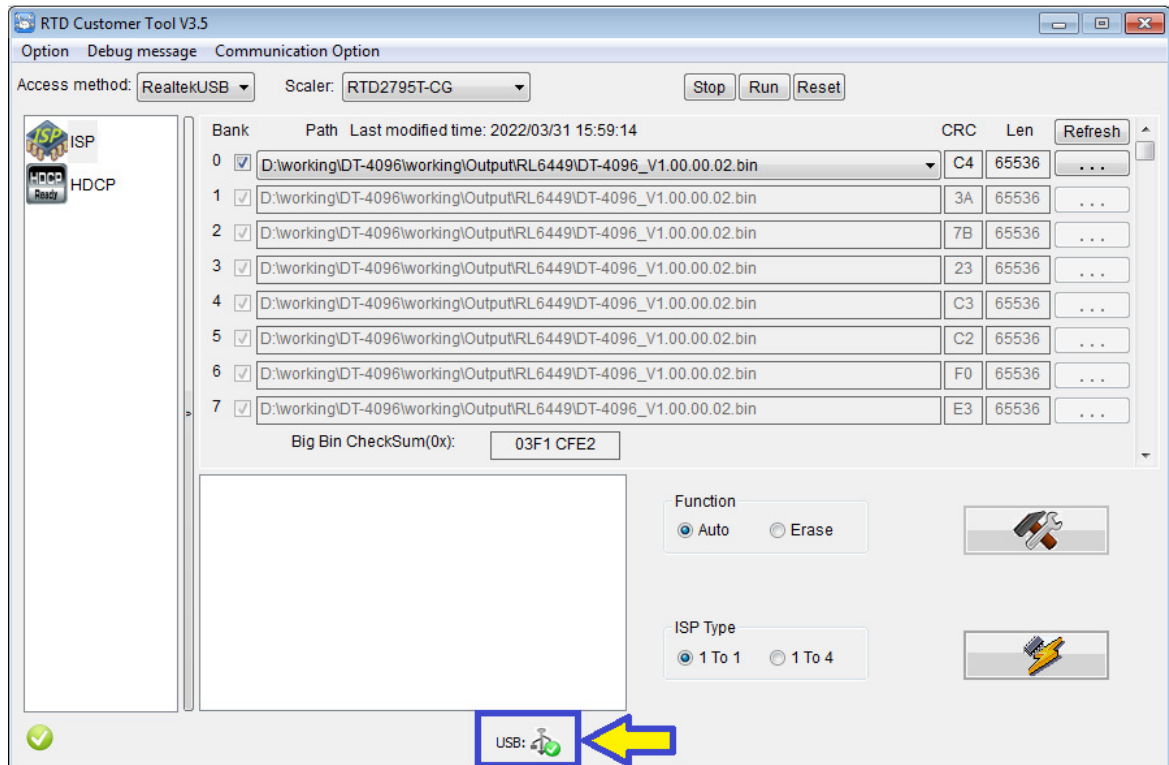
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<Step 5> In “RTD Customer Tool” program, its window is shown as follows and make sure USB connection is ready (USB status shows a green tick icon). If the USB status shows a red cross icon, please unplug and plug the USB cable of programming board to re-initialize the USB connection.



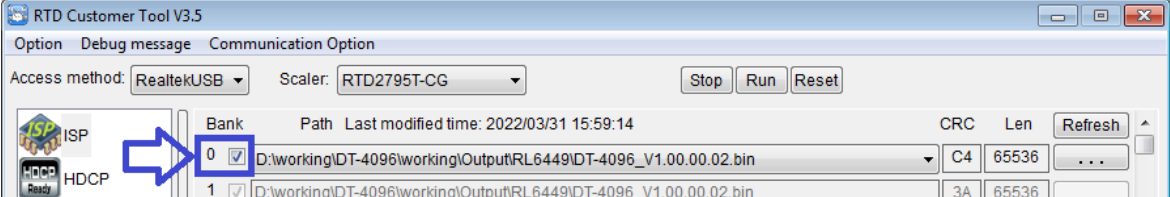
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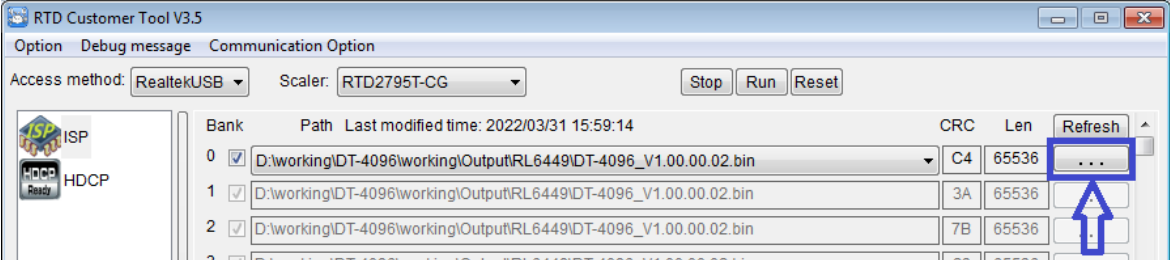
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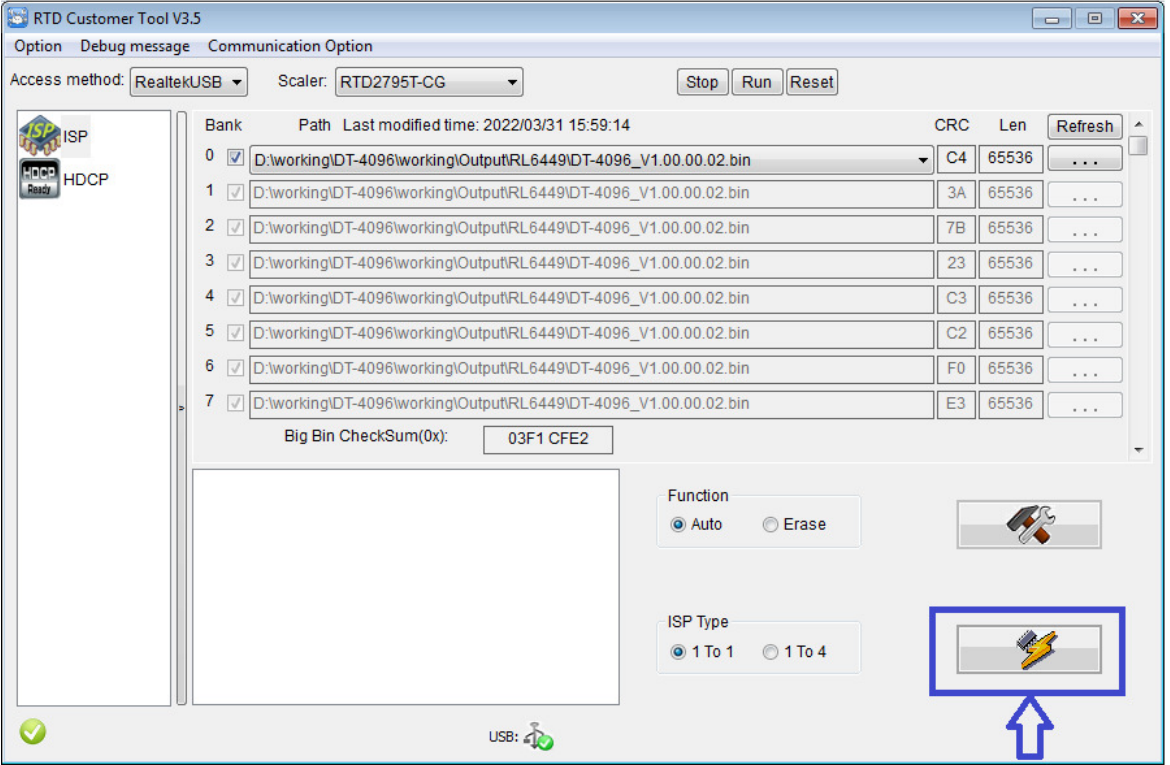
<Step 5> Tick the Bank box '0'



<Step 6> : Press “...” button beside Bank 0 row to select the firmware bin file to be downloaded.



<Step 7> : Press “lightning” button to start firmware download process



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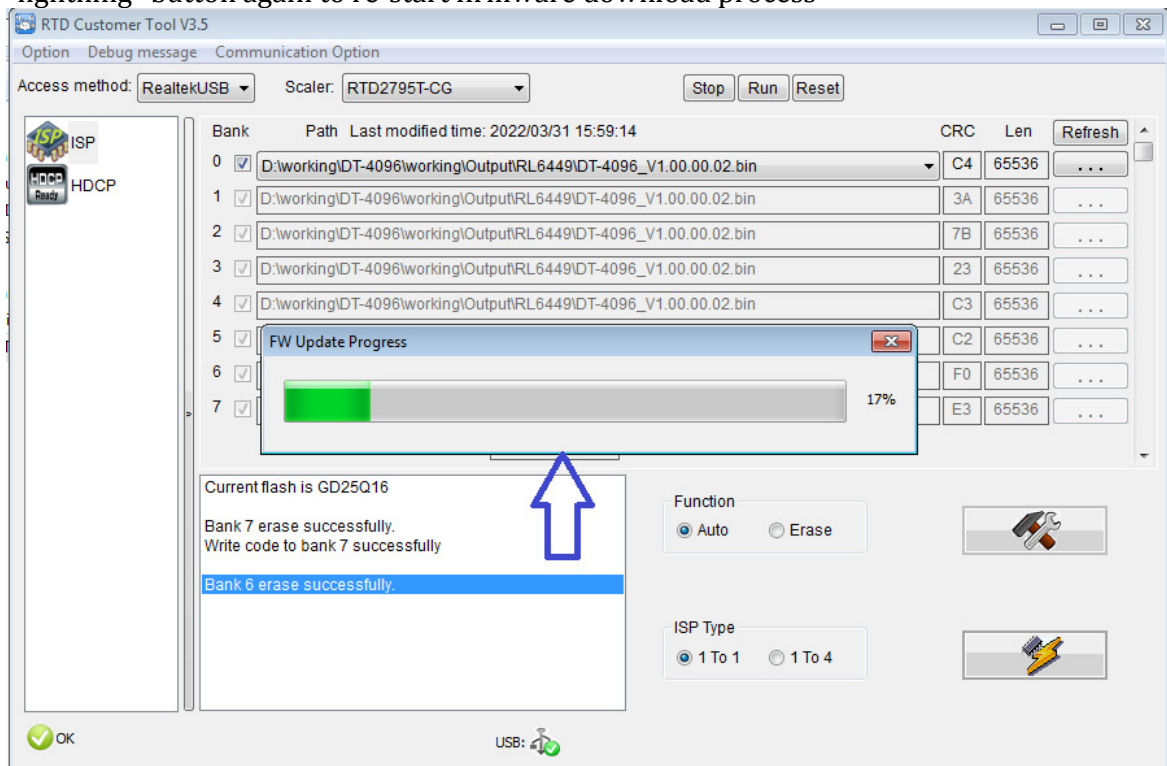


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<Step 8> : Firmware update is in progress.....

If there is any failure during firmware download process and it is stop, please press “lightning” button again to re-start firmware download process



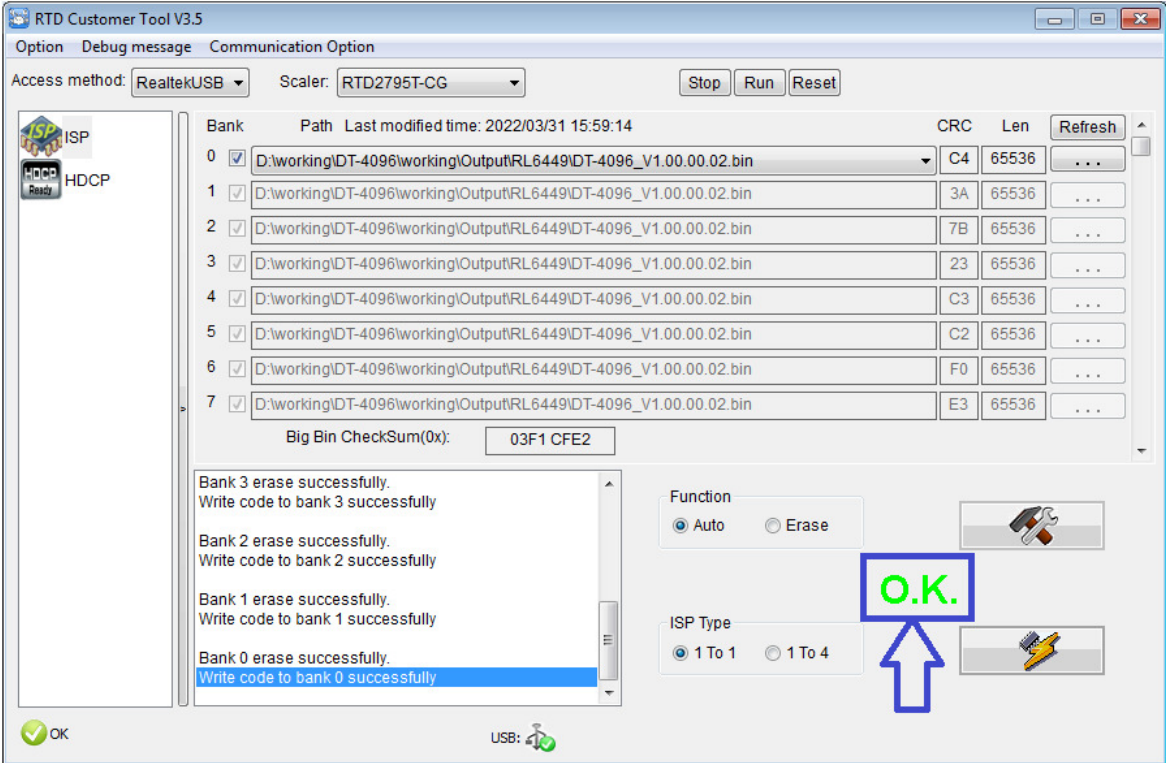
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<Step 9> : If the firmware download process is completed successfully, the program displays “O.K.” message as shown below.



<Step 10> : Quit the “RTD Customer Tool” program.

-END-

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