

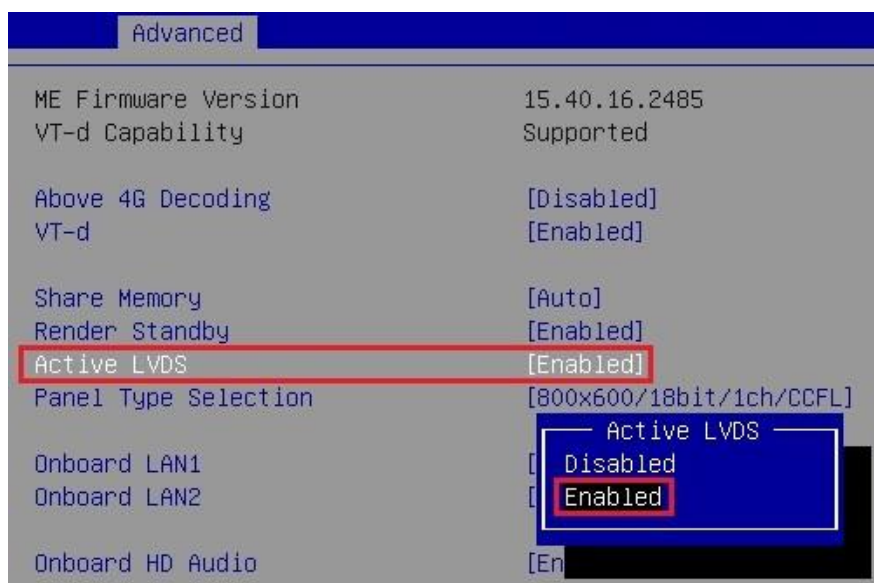
ASRockInd Technical Reference - Q&A

Question	How do I update LVDS Chrontel firmware for CH7513A under Windows?
Release date	2022/5/19
Product	All model with CH7513A Chrontel IC
FAQ type	<input type="checkbox"/> Specification <input type="checkbox"/> OS & Driver <input type="checkbox"/> Application <input checked="" type="checkbox"/> BIOS/FW <input type="checkbox"/> Others

Answer:

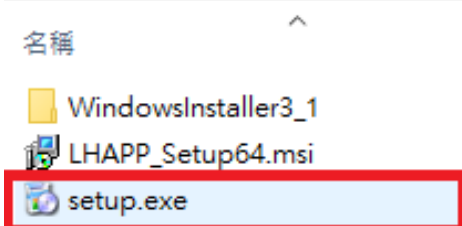
Please follow the steps below to update CH7513A LVDS Chrontel firmware.

- Under the BIOS, please adjust "Active LVDS" to [Enabled], and then press F10 to save and exit.
(Path: BIOS > Advanced > Chipset Configuration > Active LVDS [Enabled])




- Boot into Windows and install VGA driver downloaded from ASRI website.
- Extract the Chrontel firmware file and install AUXDriver with setup.exe.

> AuxDriver > Release_64bit >



4. After VGA and AUX drivers are installed, please reboot the PC.
5. Run CMD and type "cd [folder name]" to enter the folder, and then key in "UPD7513_I64 -I0 -w filename.bin" to execute Chronitel ROM flash.

 Command Prompt

```
Microsoft Windows [Version 10.0.19044.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\TSD>cd C:\Users\TSD\Desktop\22050303

C:\Users\TSD\Desktop\22050303>UPD7513_I64.exe -I0 -w 22050303.bin
```

6. After finishing the Chronitel ROM flash, you will see the following message:

```
Number of Active Displays = 2
Display #1 = 800 x 600, 60Hz, DISPLAYuid = 0x00001000
2B02F0-4348-37353133
find Chronitel Device(0)
An 8K PROM
Initial ID B35A9D2C, FW Size 4054
verify_checksum 0x03F8
Firmware in chip
Version 2.4.41
Size: 4054
Read 1F80 done
Vendor String: 0205412021112301

Program 0FDA done
Program 1200 done
Program 1B00 done
Program 1F80 done
Program 2000 done
Verify 0FDA done
Verify 1200 done
Verify 1B00 done
Verify 1F80 done
Verify 2000 done

C:\Users\TSD\Desktop\22050303>
```

7. Reboot system and check if the LVDS Chronitel firmware is updated correctly on BIOS main screen.

```
Main Advanced H/W Monitor Security Boot Exit

System Date [Tue 05/03/2022]
System Time [17:29:48]

UEFI Version : SBC-250N L0.17
Processor Type : Intel(R) Pentium(R) N6415 @ 1.20GHz
Processor Speed : 1200MHz
Cache Size : 4MB

Total Memory : 8GB with 512MB Shared Memory and 8MB GTT
memory
Dual-Channel Memory Mode

DDR4_A1 : Kingston 8GB (DDR4-2666)
DDR4_B1 : None

LVDS Rom Version: 22050303
```