

QUICK INSTALL GUIDE FOR MATRIX CRYPTOCOP ADDON + FREEDOM LITE PCB:

THE LITE-ON DG16D5S AND HITACHI DLN10N 0500/0502*
SOLUTION FROM THE MATRIX TEAM

BEFORE YOU BEGIN

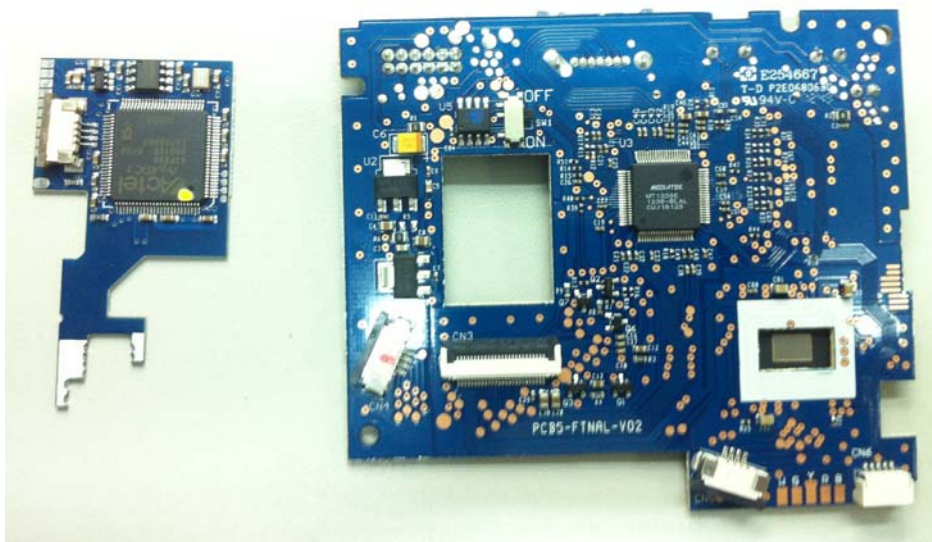
This solution provides the option to run DVD backups of your owned games. You'll be able to play all your backups (XGD1, XGD2, XGD3 Xbox and Xbox 360 DVD formats) even on Live – at your own risk.

WHAT YOU WILL NEED

- A NAND dump of a console with one matching drive (Lite-ON DG16D5S or Hitachi DLN10N 0500/0502*);
- The CPU KEY of the console above;
- One Matrix Freedom Lite PCB (MTX 007);
- One CryptoCop Add-On
- Matrix Freedom USB Programmer
- Matrix Freedom D5S Manager V.1.01
- Small piece of wire, soldering station, etc.



Matrix Freedom USB Programmer

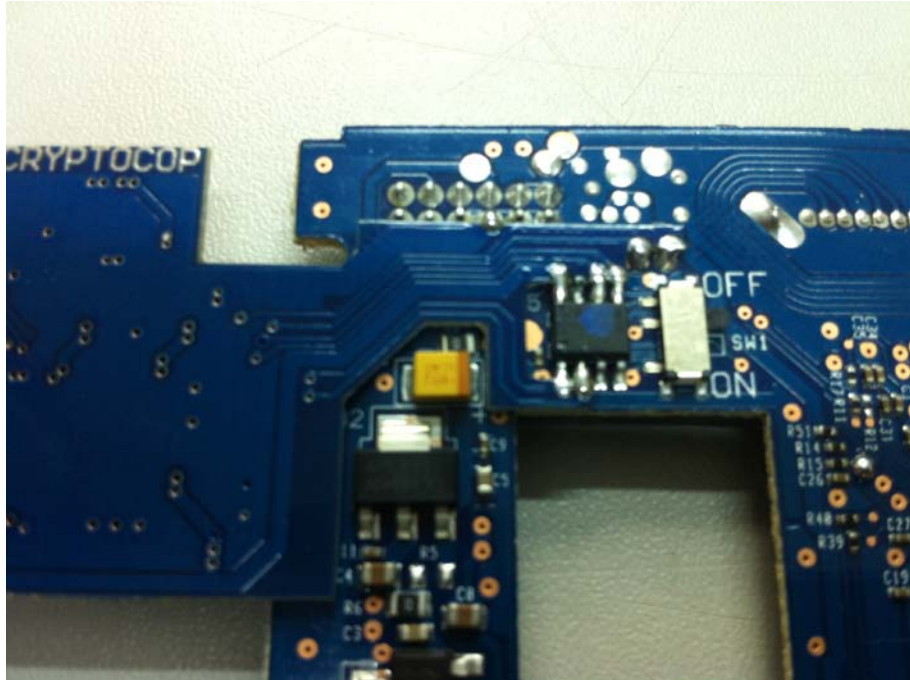


Cryptocop Add-On and Freedom Lite MTX007

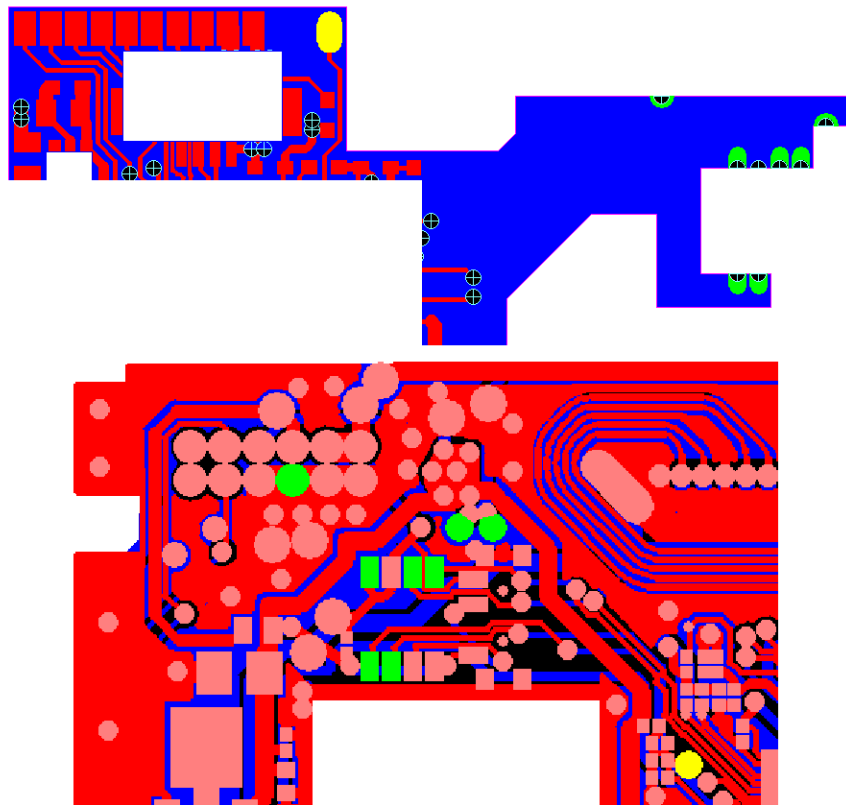
LET'S START! THE HARDWARE

Please disassemble your DVD drive and remove the original PCB. Keep the drive handy as we will put the Freedom Lite PCB + Cryptocop Addon on it soon.

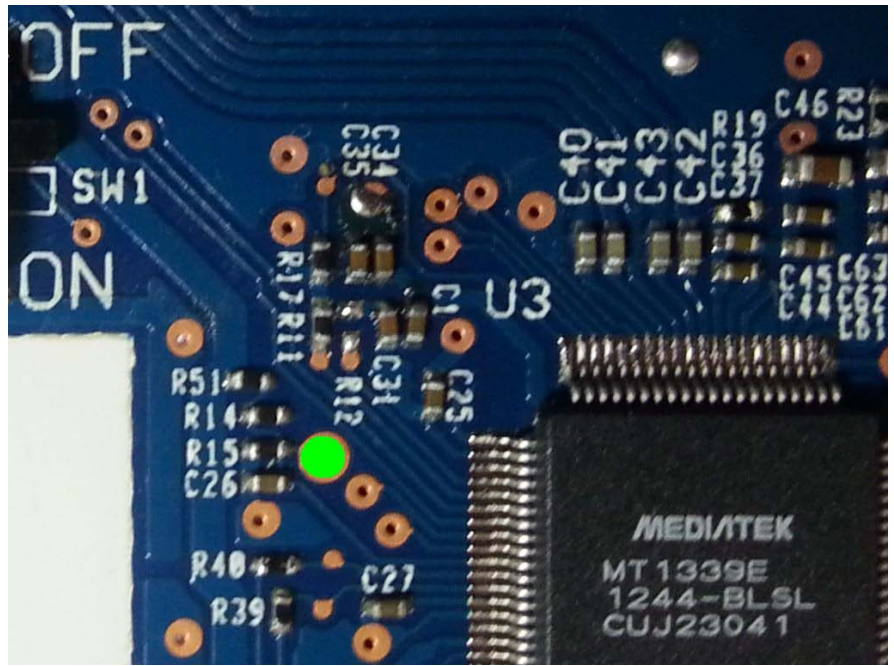
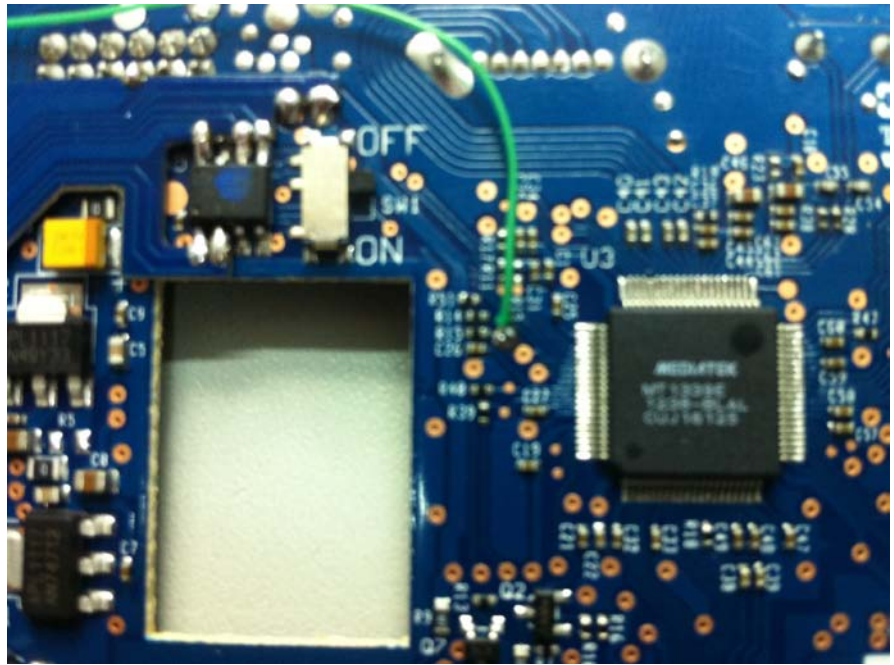
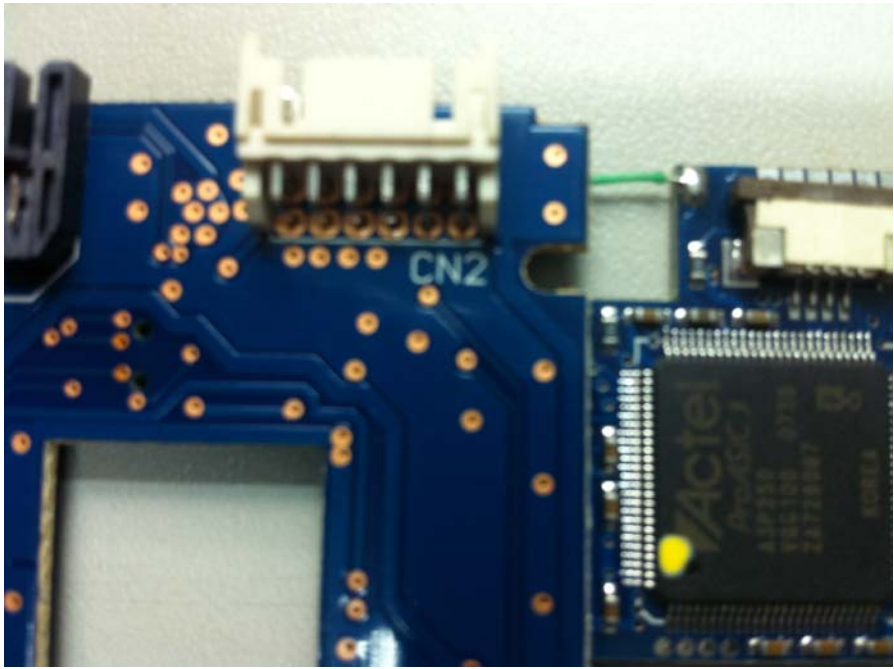
Solder the Add-On to the PCB as shown on the picture below. It has quick solder points to make the job very easy.



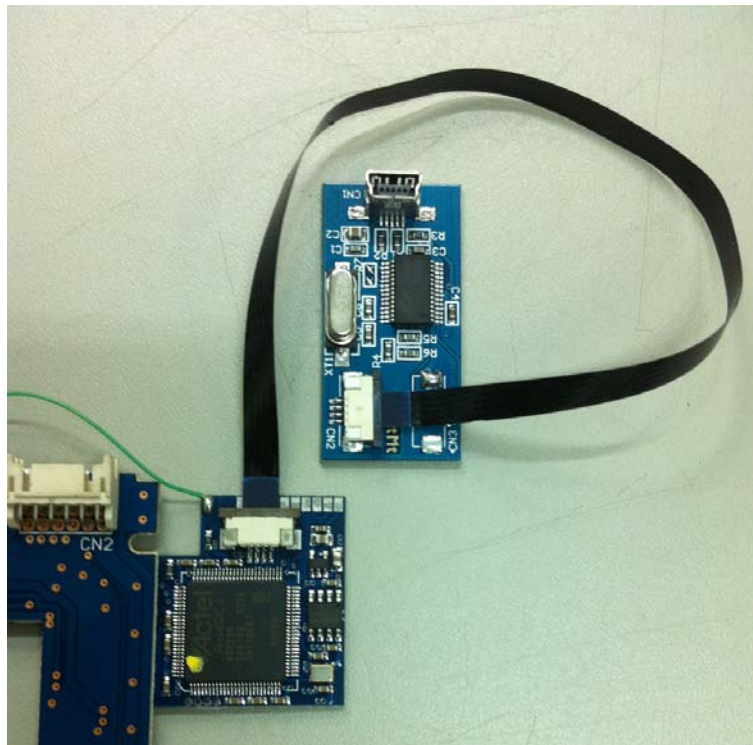
Just for reference, below some schematic pictures:



If you noticed there are two YELLOW dots, one on the ADD-ON and the OTHER on the PCB, a wire must connect both:



After assembling the Add-On and PCB together, you need to connect the Matrix Freedom USB Programmer using its flat cable to the connector available on the Add-On. Remember: the contact edges must face down on the connectors.



If it is the first time you use the Matrix Freedom USB Programmer when you connect the USB cable to your Windows PC it may ask for drivers, please use the most recent version of Prolific Drivers. You can get them at our website.

If you haven't done so, connect the USB cable from the Matrix Freedom USB Programmer to your Windows PC and power the Freedom Lite PCB. Remember to not power the PCB with Xbox 360 own DVD drive connector if you don't want to get a possible FLAG for using the console without its DVD drive.

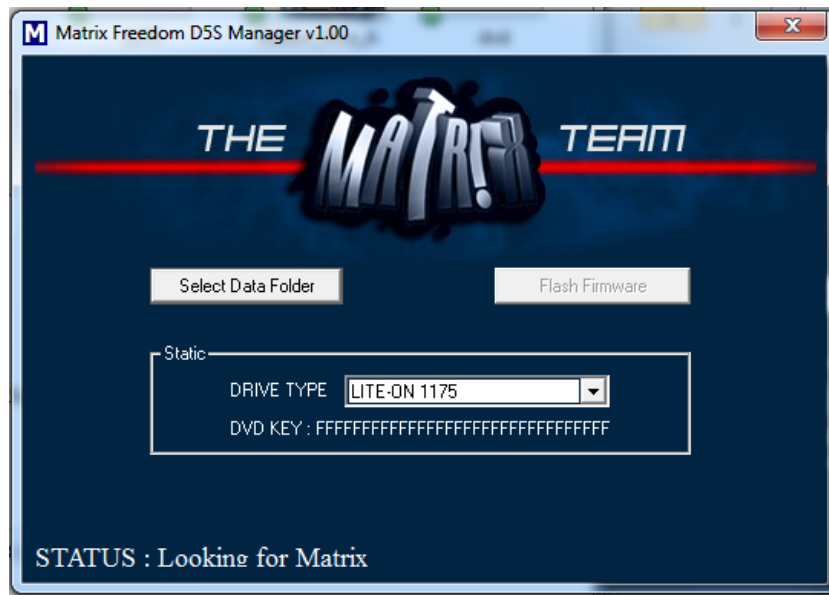
PROGRAMMING THE Lite-ON 1175/1532 CFW to the "NEW" PCB

As our hardware is already set up, let's move to the software.

As a side note, to get the NAND dump and CPU KEY of the console you are working on, please refer how to apply the RGH (Reset Glitch Hack) to it. And don't forget to have the original NAND reprogrammed to the console. This will not be covered in this Quick Installation Guide.

With the NAND dump or your console and its CPUKEY you will be able to get the two files needed in the process: FCRT_DEC.BIN and DVD.TXT. The first one is the decrypted copy of FCRT.BIN file which is the "pairing identity of a DVD drive to its motherboard" and the second one a plain TXT file with DVDKEY on it. You can get this data with any of the current solutions available over the Internet. Put the files where you want, or place them in the same folder as the Matrix Freedom D5S Manager is.

Run the Matrix Freedom D5S Manager and you will get a window like this:



As this is just an example, you may notice differences from the final version you may be using while reading this guide. The info you will see are:

The “**SELECT DATA FOLDER**” button will give us the option to select where the data (FCRT_DEC.BIN and DVD.TXT files) are located. Just select the folder you saved them.

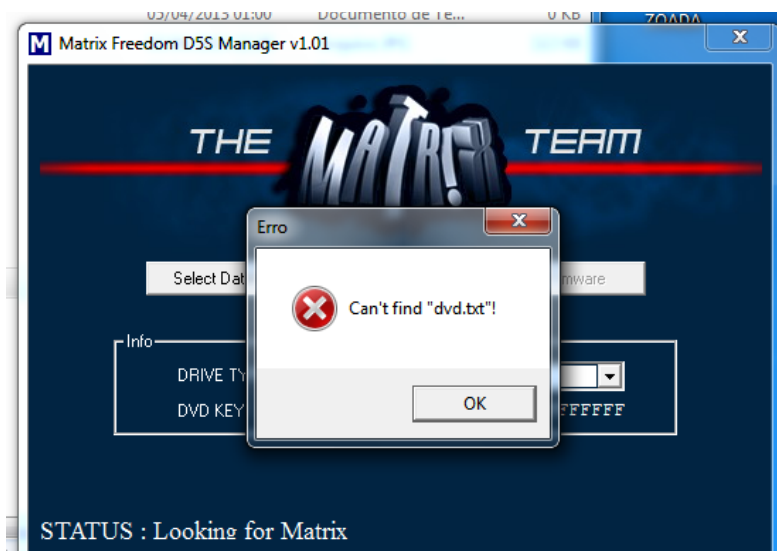
The “**DRIVE TYPE**” dropdown combo box let you match the drive you are going to have the PCB exchanged. TIP! If you create an empty TXT file with the drive name (1175.TXT or 1532.TXT) the selection will be done automatically.

The **DVD KEY** info will be filled with the data on the DVD.TXT file.

After selecting the data folder, you may jump to flash the PCB by hitting the “**FLASH FIRMWARE**” button.

The **STATUS** line will give the current info, showing which COM port your Matrix Freedom USB Programmer is connected and, when flashing the PCB, the progress of the writing and verifying. When it finishes without errors, a DONE message will be shown.

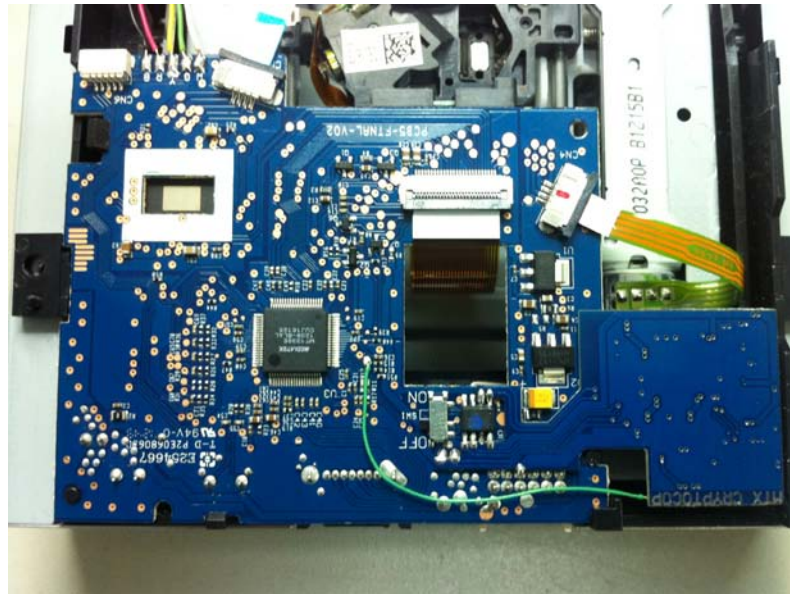
If, for example, one of the data files can't be located, a error message is shown:



Please check if the correct names are given to the files, if the correct folder was selected, etc.

After a successful flash, you may turn the PCB power off and disconnect the Matrix Freedom USB Programmer from it.

Assemble the “NEW” PCB on the drive. It fits perfectly:



Close your drive (pay attention to use the heat sink provided with the PCB) and attach it to your console.

Have Fun!

* The Hitachi DLN10N 0500/0502 drives are going to be compatible in a few days.