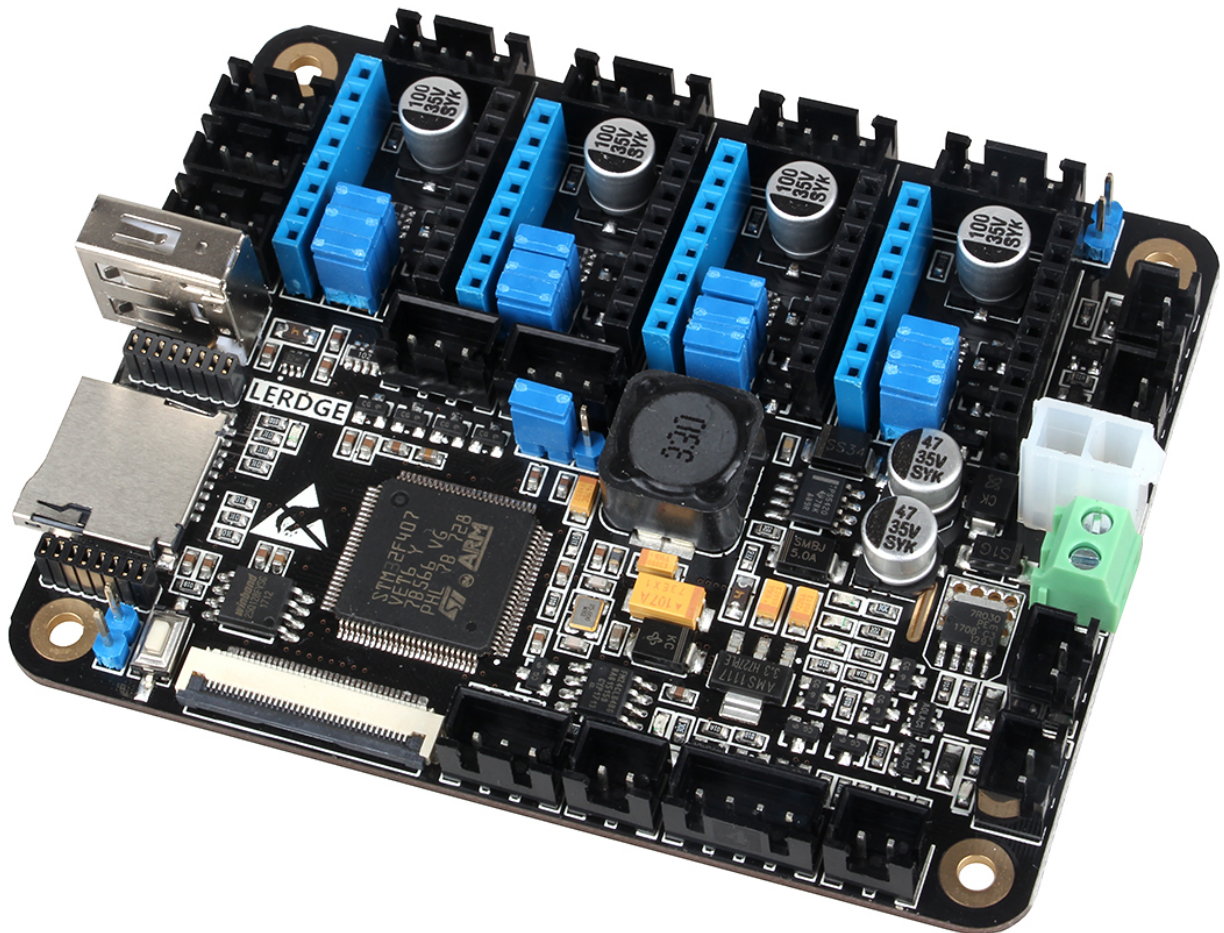


The Method and Precautions of Updated Software for Lerdge-X Motherboard





I. The firmware update method

There are two methods to update the firmware, select update and force update.

Select Update: Applies to the manual selection of updates if the system is operational.

Forced update: Applies to remediation after the system fails to operate properly or the system update fails.

Select update method (can be executed with U disk or TF card)

1. Download the firmware upgrade package from www.lerdge.com and extract it to a location you can find on your computer (eg computer desktop).
2. Open the Lerdge_X_normal folder in the unzipped folder. Copy the entire folder named "Lerdge_X_system" to the storage device(U disk or TF card).
3. Insert the storage device into the corresponding interface of the motherboard, click the  icon, enter the "System" interface, click the  icon, find the upgrade file in the corresponding storage device, and perform the update. The system will automatically jump to the application program after the updating finished. If the system does not jump for a long time, you can restart the motherboard through the reset button on the motherboard, or power off the motherboard and then power on to restart the motherboard.

Note: The path to the "Lerdge_X_system" folder in the memory/storage device should be a **full English path**. Failure to do so may result in an upgrade failure or other software problem.

Method of force update (can only be performed by using TF card)

1. Download the firmware upgrade package from www.lerdge.com and extract it to a location you can find on your computer (eg computer desktop).
2. Open the "Lerdge_X_force" folder in the unzipped folder. Copy the entire folder named "Lerdge_X_system" to the root directory of the TF card.
3. Insert the TF card into the corresponding interface of the motherboard, restart the motherboard, and the system can perform forced update of the firmware.
4. After step3 finished, please delete the "Lerdge_X_system" folder in the root directory of the TF card to prevent the firmware from being forced to be written again at the next boot.

Note: The system forced update is to place a file with a specific name under a fixed path. After the system is powered on, the comparison will be performed. After the condition is met, the update will be performed. So don't modify the name or content of the "Lerdge_X_system" folder and its sub-folders. And make sure that the "Lerdge_X_system" folder is stored in the root directory of the TF card.

What to do if the firmware cannot be updated: Try to format the storage device to clear the content and then copy the file again to try to update.

II. UI update

The system UI generally does not require active updates, usually the system automatically looks for updates after the system firmware update. When the system firmware version on the motherboard does not match the UI version, the system will first find out whether there is a corresponding UI file in the storage device after booting. If the correct file system is found, it will be automatically updated. If it is not found, the prompt interface will appear, as shown in Figure 2.

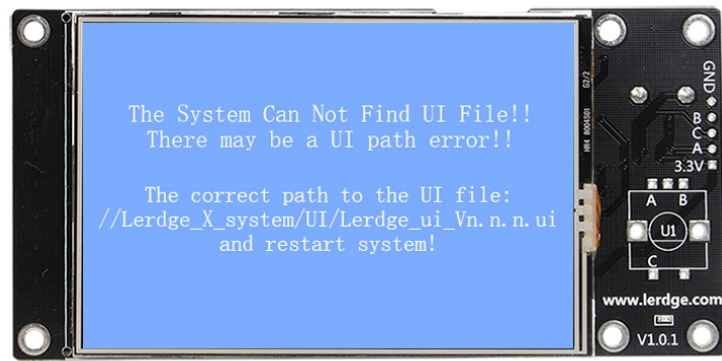


Figure 2

When the interface of Figure 2 appears, make sure that the storage device (TF card or USB flash drive) you are using has the corresponding UI file in the correct path.

The correct UI auto update path is "**memory root_directory /Lerdge_X_system/UI/Lerdge_X_UI_Vn.n.n.ui**", the Vn.n.n here is the UI version number.

If the file storage path is correct and the UI cannot be updated, you can try to format the storage device to clear the content and then copy the UI file to the storage device to try again.