

# How to Update TPM Firmware

## Applications

The TPM firmware update is only applicable to the following models.

Product Name	CPU Generation	TPM FW Version
A140	6th Gen	1.3.1.0
F110	7th Gen	1.3.1.0
S410	7th&8th Gen	1.3.1.0
V110	7th Gen	1.3.1.0
X500G3	7th Gen	1.3.1.0

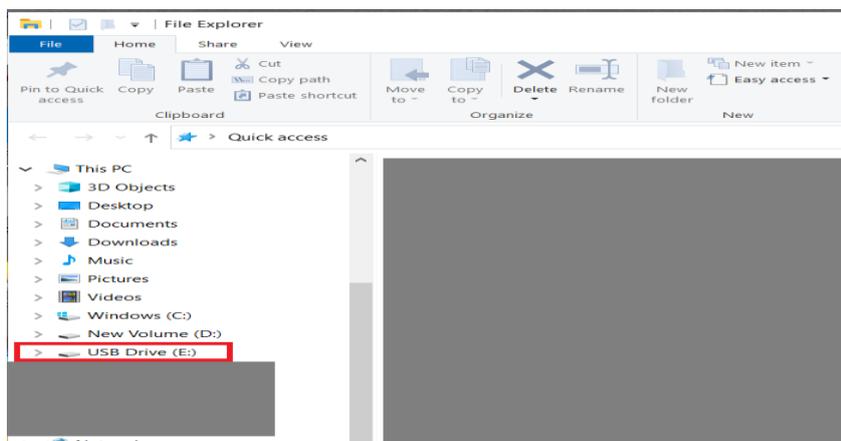
## Process

### Create a firmware update USB handy drive

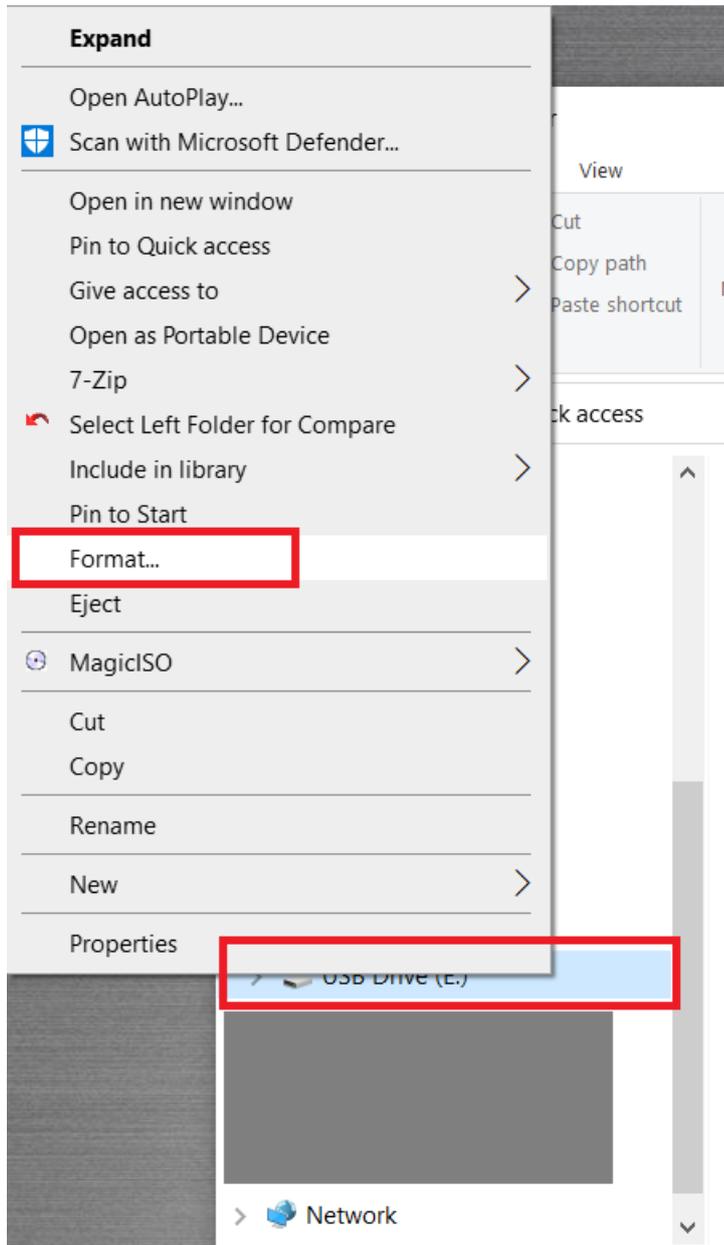
1. Insert USB handy drive (the original data of the USB handy drive will be cleared)
2. Open file explorer



3. Found inserted USB handy drive

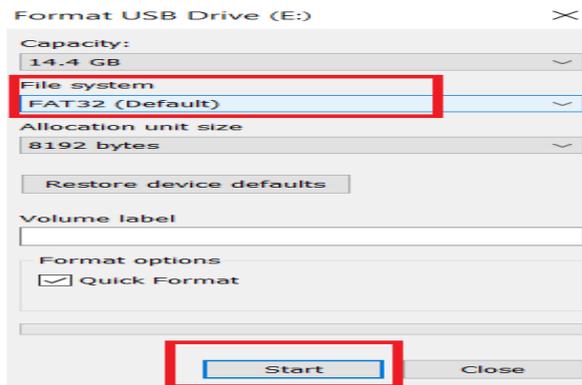


4. Click the right key of the mouse on the USB drive, select format (Picture 1)



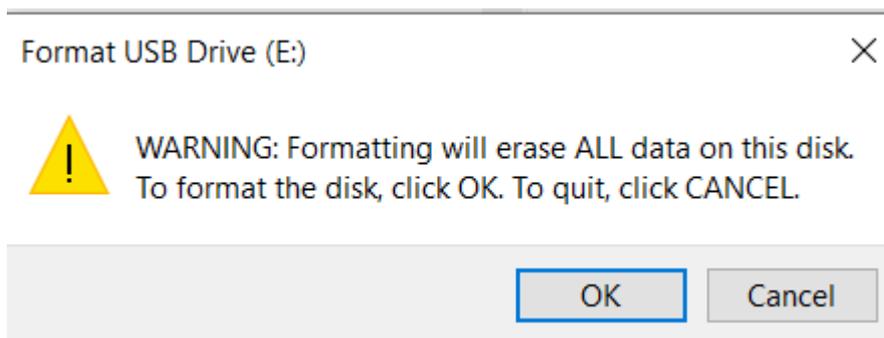
**Picture 1**

5. Select FAT32 of file system, Click start button(Picture 2)



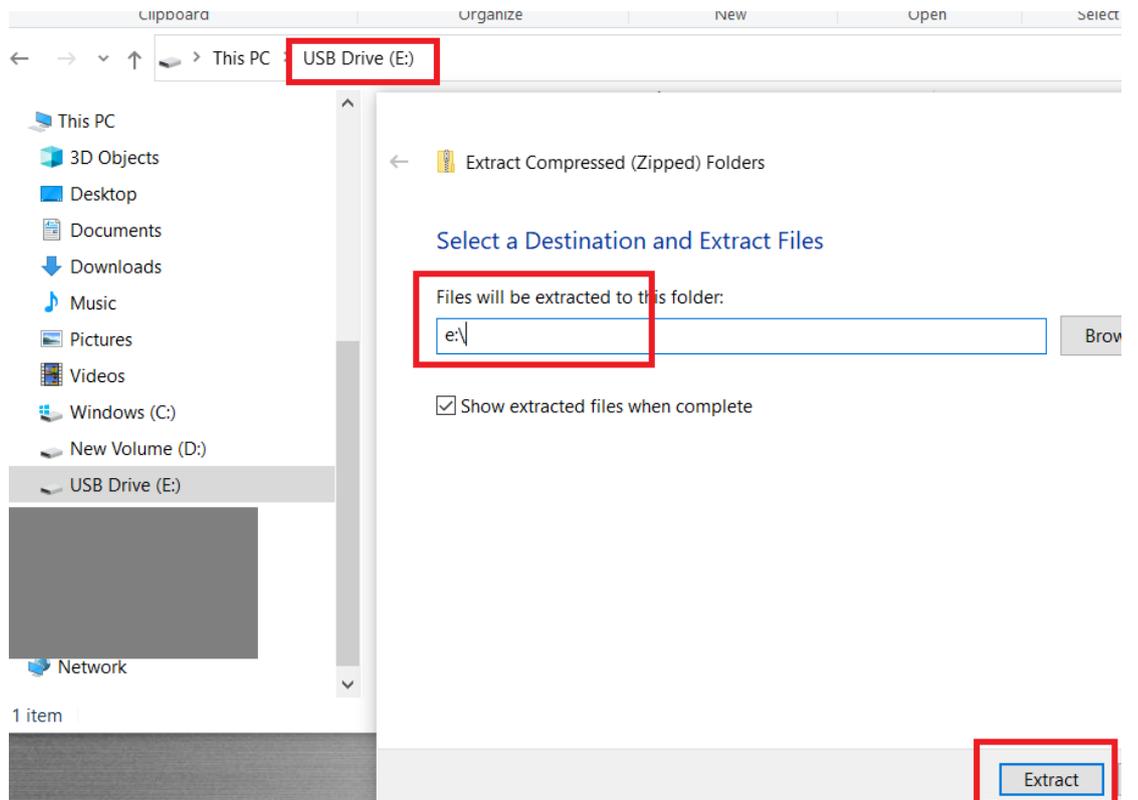
**Picture 2**

6. Formatting the USB drive will erase all data; please backup your data on the USB drive before executing formatting. Click ok button(Picture 3)



**Picture 3**

7. Decompress TPMFW13220.zip file to the USB drive (Picture 4)



**Picture 4**

8. Remove the USB disk from the system

# Update Procedures

## Disable BitLocker function

**Warning:** TPM firmware update will cause the loss of all TPM keys and data protected by those keys. It is important to disable BitLocker before applying the update.

1. Disable **BitLocker** on Windows OS. Select **Control Panel** → **System and Security** → **BitLocker Drive Encryption**. Click **Turn off BitLocker**. (Picture 5)



**Picture 5**

2. Click **Turn off BitLocker** (Picture 6) to confirm decryption drivers



**Picture 6**

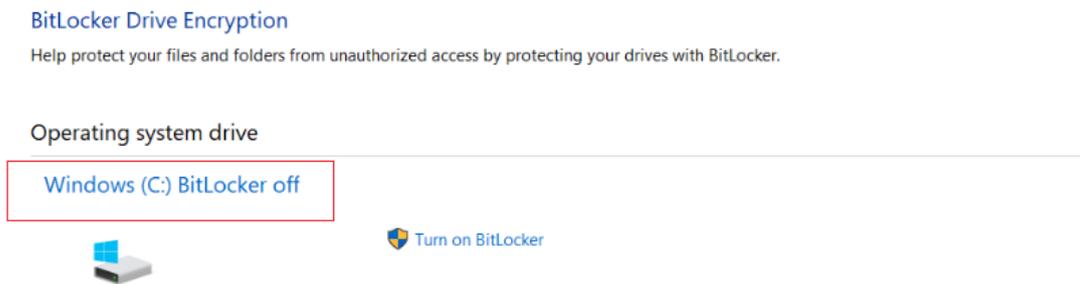
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Wait for the decryption process to finish (Picture 7)



**Picture 7**

4. Bitlocker function is successfully disabled when the window shows BitLocker is off (Picture 8)

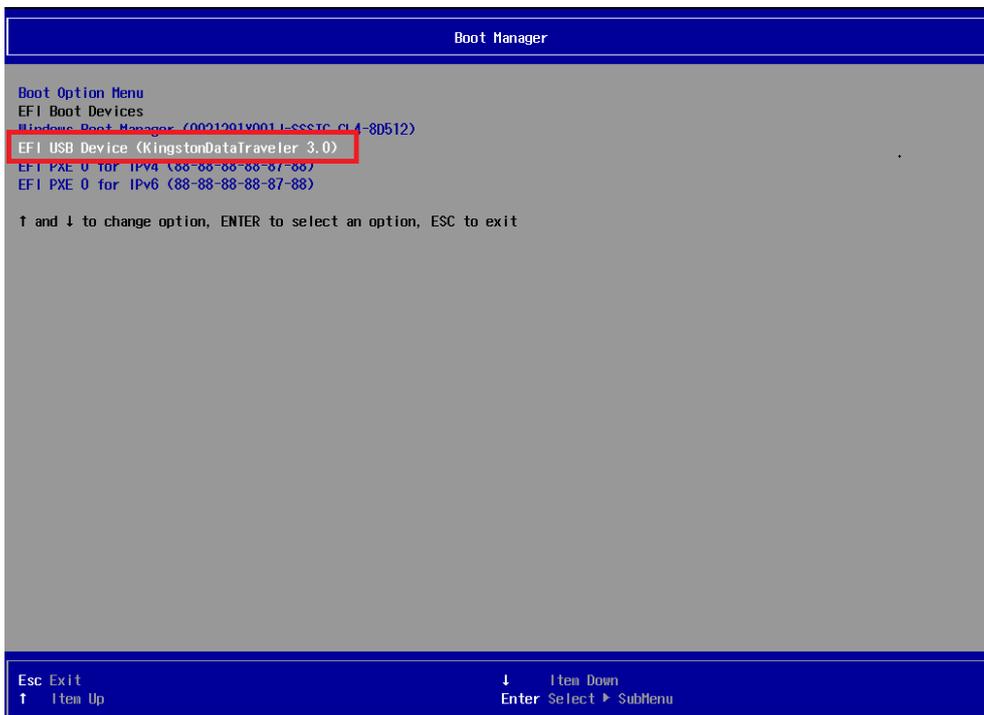


**Picture 8**

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## Update TPM firmware

1. Restart the system
2. Enter SCU (system configuration unit) by **pressing F2 key**
3. Select the **Security page**
4. Change **Intel Trusted Execution Technology from [Enabled] to [Disabled]**
5. Insert the firmware update USB handy drive
6. Select the **Exit page**
7. Select **Exit Saving Changes**
8. Press the **F10 key** to launch Boot Manager
9. Select the EFI USB device and **press Enter key**(Picture 9)



**Picture 9**

10. System will auto restart
11. Press the **F10 key** to enter Boot Manager during the process of auto restart
12. Select the **EFI USB device** and press Enter key
13. Wait for TPM firmware update to finish.
14. After the update process, press the power button to **power off** the system.
15. Once the system is powered off, press the power button to **power on** the system.
16. The system does not detect the TPM module at this moment; please **manually reboot the system**
17. Update procedure is finished after the system restart. The settings in SCU can be changed back as preferred.