LP-2841M Series

OS_Image Update Guide

(v1.0)



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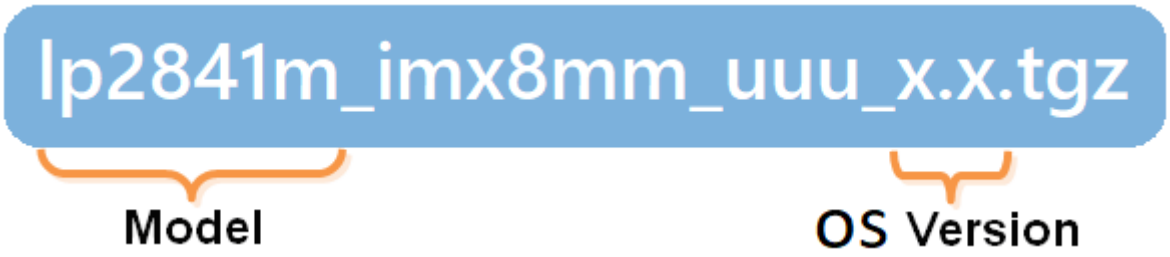
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1.【Download LP-2841 OS Tool】

- LP-2841M Series

  Please download the LP-2841M OS tool (lp2841m_imx8mm_uuu_x.x.tgz) from below web link:

  https://www.icpdas.com/tw/download/show.php?num=8671&model=LP-2841M



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2.【Preparation】

(1) Preparation tools as below：

- ✓ A Windows PC (Win10 or later version) or Linux PC (Ubuntu 18.04 or later version.
- ✓ A Mini USB cable

1. PC	➢ **Windows 10 (or later version) or Linux Ubuntu18.04 (or later version)** ➢ **A USB Port**
	
2. Mini USB Cable	➢ **Mini USB Cable x 1**
	

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(2) User can copy the OS tool “LP-2841M_imx8mm_uuu_x.x.tgz” of LP-2841 to **the PC (Windows/Linux OS)** and decompress the OS tool, please refer to below figure:

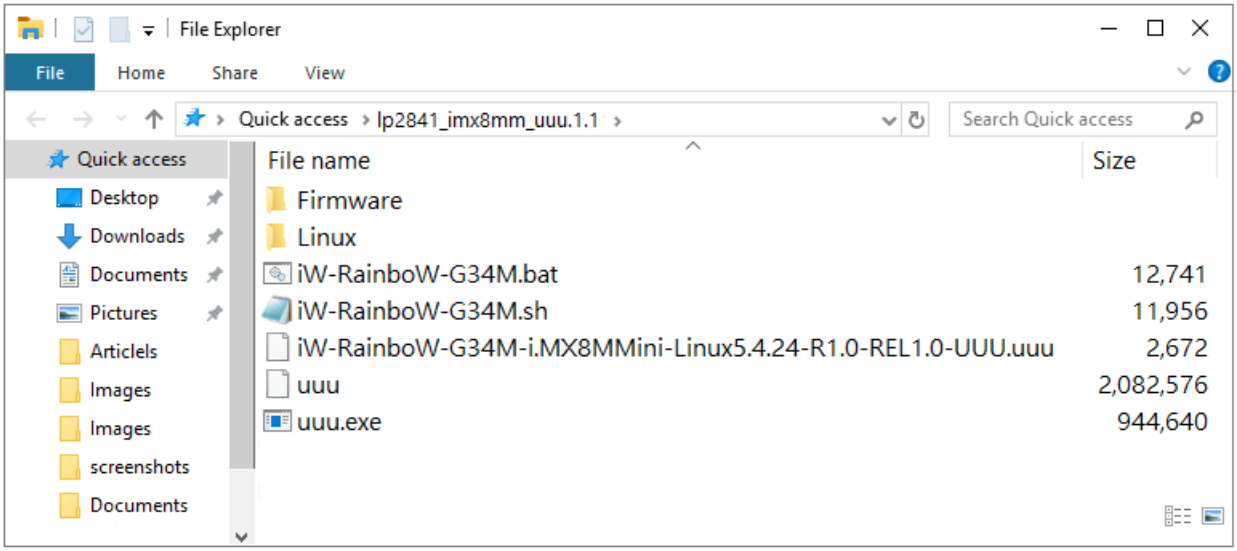


Fig.1 Decompress the“LP-2841M_imx8mm_uuu.tgz” in Windows OS

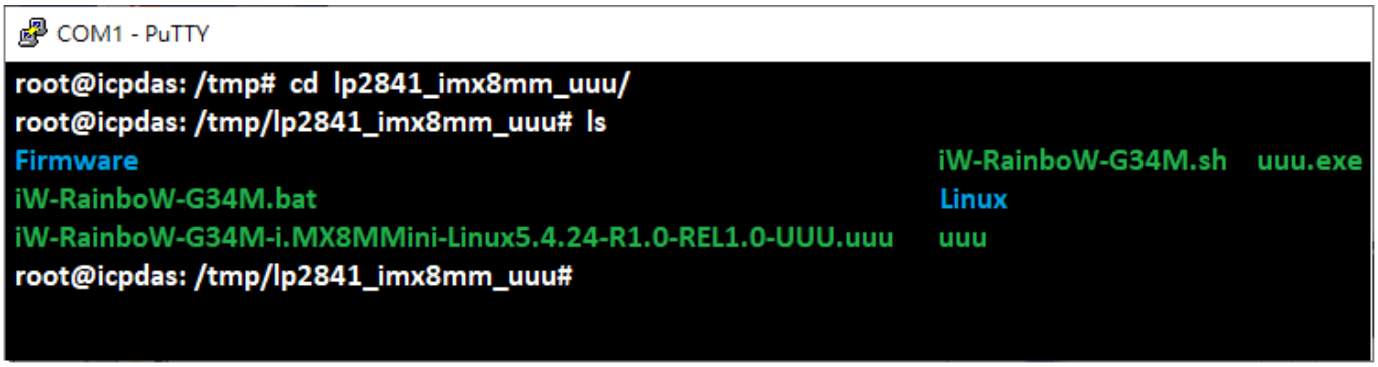


Fig.2 Decompress the “LP-2841M_imx8mm_uuu.tgz” in Linux OS

(3) To **adjust the LP-2841M’s switch to the “USB” mode** and connect the LP-2841M to the PC’s USB port via the mini USB cable, please refer to below figure:



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3.【Update Procedure】

< Important Notes >

1. Ensure that you perform a backup of any important files, before attempting to update the OS image.
2. DO NOT power off or reboot the controller while the OS image is being updated, as this may result in the OS image becoming corrupted, which may cause the controller to malfunction.

(1) To turn on the LP-2841M power.

(2) To run the command **"iW-RainboW-G34M.sh"** in Linux OS or run the command **"iW-RainboW-G34M.bat"** in Windows OS to install LP-2841M factory OS. The recovery process may spend 7 ~ 8 minutes.

- Linux PC

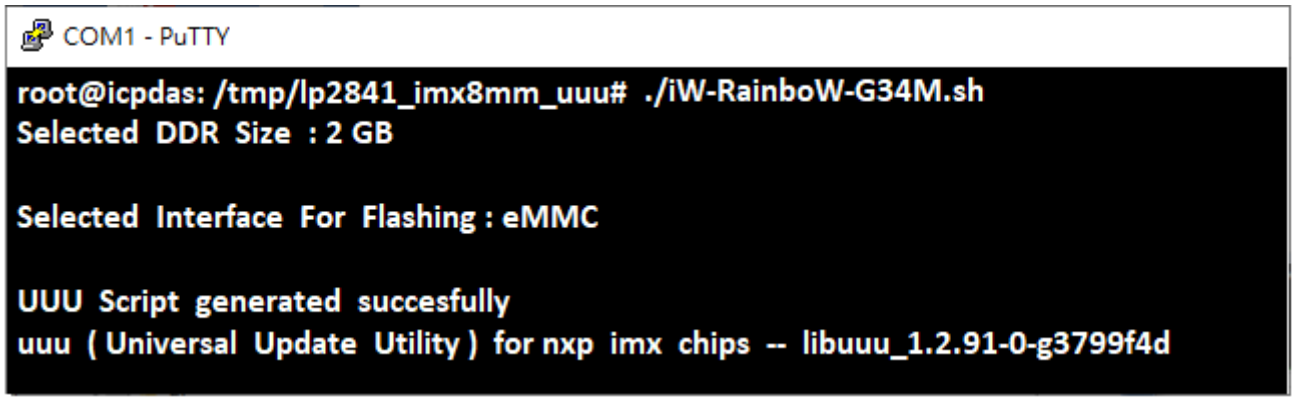


Fig.3 Run the command "iW-RainboW-G34M.sh" in Linux OS

- Windows PC

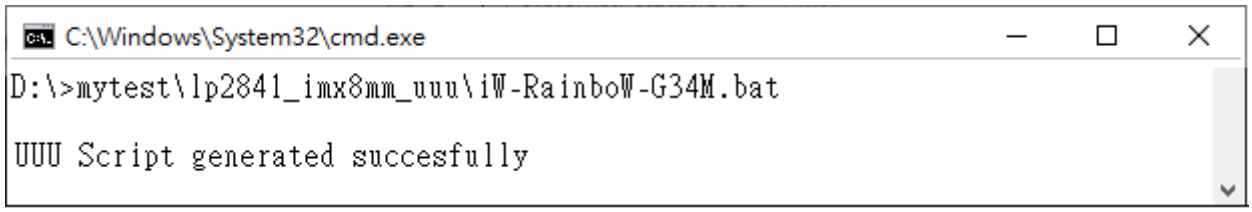


Fig.4 Run the command "iW-RainboW-G34M.bat" in Windows OS

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(3) If loading the Linux OS successfully, the command show below message:

- Linux PC

```
1:12>Okay
1:12>Start Cmd:FBK: ucmd mkdir -p /mnt/ext4
1:12>Okay
1:12>Start Cmd:FBK: ucmd mmc=`cat /tmp/mmcdev`; mount /dev/mmcblk${mmc}p2 /mnt/ext4
1:12>Okay
1:12>Start Cmd:FBK: acmd export EXTRACT_UNSAFE_SYMLINKS=1; tar -jx -C /mnt/ext4
1:12>Okay
1:12>Start Cmd:FBK: ucp  Linux/rootfs.tar.bz2 t:-
99%1:12>Okay
1:12>Start Cmd:FBK: Sync
1:12>Okay
1:12>Start Cmd:FBK: ucmd umount /mnt/ext4
1:12>Okay
1:12>Start Cmd:FBK: DONE
1:12>Okay
```

Fig.5 Loading the Linux OS successfully in Linux OS

- Windows PC

```
Allocating group tables: done
Writing inode tables: done
Creating journal ( 16384 blocks ): done
Writing superblocks and filesystem accounting information: done

1:11>Okat
1:11>Start Cmd:FBK: ucmd mkdir -p /mnt/ext4
1:11>Okat
1:11>Start Cmd:FBK: ucmd mmc='cat /tmp/mmcdev'; mount /dev/mmcblk${mmc}p2 /mnt/ext4
1:11>Okat
1:11>Start Cmd:FBK: acmd export EXTRACT_UNSAFE_SYMLINKS=1; tar -jx -C /mnt/ext4
1:11>Okat
1:11>Start Cmd:FBK: ucp Linux/rootfs.tar.bz2 t:-
1:11>Okat
1:11>Start Cmd:FBK: Sync
1:11>Okat
1:11>Start Cmd:FBK: ucmd umount /mnt/ext4
1:11>Okat
1:11>Start Cmd:FBK: DONE
1:11>Okat


請按任意鍵繼續 . . .
```

Fig.6 Loading the Linux OS successfully in Windows OS

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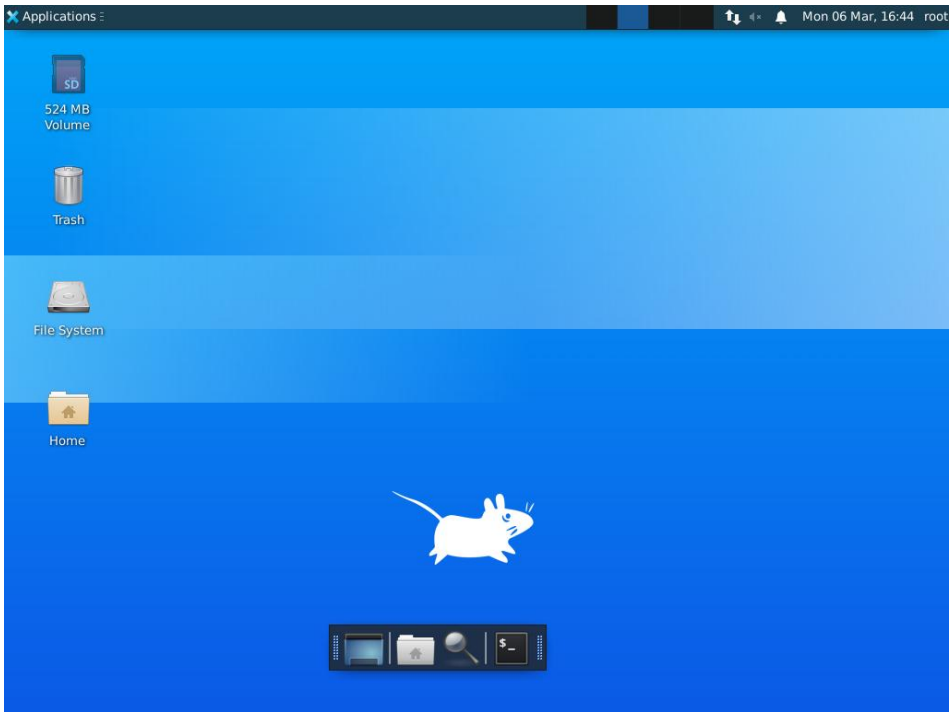
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(4) After the recovery process completed, user can **turn off the power** of the LP-2841M, remove the mini USB cable and **adjust the LP-2841's switch to the "normal" mode (please refer to below figure).**



(5) If user had **adjusted the LP-2841M's switch to the "normal" mode and removed the mini USB cable**, user can **turn on the power** of the LP-2841M.

After user type "**root**" and password "**icpdas**" to login, the local terminal would execute the XFCE Desktop.



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