

Advantech AE Technical Share Document

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| Date | 2020 / 09 / 15 | Release Note | <input type="checkbox"/> Internal <input checked="" type="checkbox"/> External |
| Category | <input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP | Related OS | Windows CE7, ubuntu, Android |
| Abstract | How to recover the OS from WinCE to Linux or Android | | |
| Keyword | Windows CE7, ubuntu, Android, TPC-71W | | |
| Related Product | TPC-71W | | |

■ **Problem Description:**

If you follow the original installation instructions to install the ubuntu or Android onto a TPC-71W with CE 7 installed, the TPC-71W will not boot.

■ **Problem Analysis:**

Because the Linux boot loader was deleted when installing CE 7, TPC-71W will not boot even if the dip-switch (SW3- 1 OFF_2 ON) is selected.

■ **Brief Solution - Step by Step:**

Create an Ubuntu 16.04 installation USB stick

Boot an X86 device to Ubuntu 16.04 USB stick

Open terminal

Connect Micro SD to your x86 device

Find out what device the uSD is

```
#sudo lsblk
```

Copy "TPC-71W-N21PA-ubuntu image" to your x86 device and unzip it.

```
#tar -xvf TPC-71W-N21PA-xx-ubuntu.2020xxxxx.tar.gz
```

Copy the "mksd_recovery-linux_boot-from-sd.sh" to / TPC-71W-N21PA-xx-ubuntu.2020xxxxx/scripts

Run following command in /TPC-71W-N21PA-xx-ubuntu.2020xxxxx/scripts

```
./mksd_recovery-linux_boot-from-sd.sh /dev/sdb ubuntu16044
```

(assuming Micro SD is on /dev/sdb)

Eject the SD card, then insert SD card into TPC-71W

Set SW3— 1: OFF, 2: ON to boot from SD card

In the terminal, enter following command

```
#!/mk_inand/scripts/mkspi-advboot.sh
```

Follow the original installation steps to install image from SD card to eMMC.

```
#./ mkinand-linux.sh /dev/emmcblk0 ubuntu16044
```

```
#sync
```

Power off, remove SD card then set SW3— 1: ON, 2: OFF

Power On the TPC to start booting from eMMC