

## 2190E recovery by USB driver

When the 2190E startup fail or hang on the startup screen. Please try to follow below steps to recover it.

1. Prepare a USB driver. Copy all these recovery files to the root directory of the USB driver.

Recovery file: datafs.img/ro\_ulmage/rootfs.img.

2. Insert the USB driver. Then power on the 2190E. It will takes about three minutes to recover. When the 2190E gets into the using interface, it means that the recover successfully.

3. When recover successfully, please delete all the recovery files .If do not delete the recovery file, the recovery file will be run again when the 2190E reboot.)

**Notes: The format of USB driver only support FAT32 and it does not support 16GB capacity USB driver. We advise to use the 4GB or 8GB USB driver**