

ONIE recover procedures

Preparation:

A. Personal computer

B. ONIE ISO image

- Download the ONIE ISO image for your own device.
- Reference: [How to download the current firmware?](#)

C. Serial Console cable:

- A cable which attached in the original box.

D. Console terminal

- Putty, Teraterm, SecureCRT, etc...

E. USB-stick

- USB-stick with FAT32 format

Procedure:

Step1. Burn the ONIE ISO image to the USB-stick.

Method 1. Linux

1. Put the ONIE ISO image to the USB-stick and insert it to the personal computer.
2. Input "fdisk -l" command on terminal to check the local disks and volumes.

```

root@PC:~# fdisk -l
...
Disk /dev/sdc: 14.9 GiB, 16025387008 bytes, 31299584 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x14fa75c4

Device      Boot Start      End  Sectors  Size Id Type
/dev/sdc1   *        2048 31299583 31297536 14.9G  c W95 FAT32 (LBA)

```

3. Start burning the ISO with "sudo dd if=[ISO file location] of=[disk location]" command.

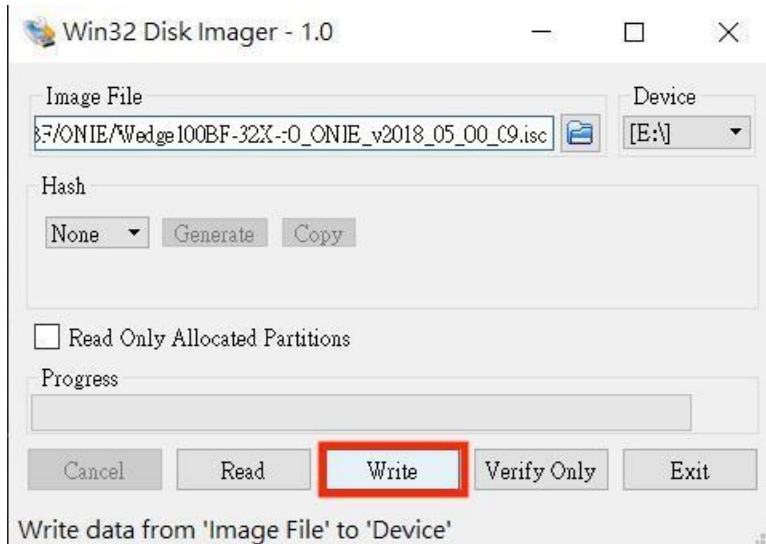
```

root@PC:/mnt/john_fn/Wedge100BF/ONIE# ls
Wedge100BF-32X-r0_ONIE_v2018_05_00_05.iso
root@PC:/mnt/john_fn/Wedge100BF/ONIE# sudo dd if=Wedge100BF-32X-
r0_ONIE_v2018_05_00_05.iso of=/dev/sdc1
55936+0 records in
55936+0 records out
28639232 bytes (29 MB, 27 MiB) copied, 0.235494 s, 122 MB/s
root@PC:/mnt/john_fn/Wedge100BF/ONIE#

```

Method 2. Win32DiskImager for Windows

Choose the USB Disk and iso file about to write



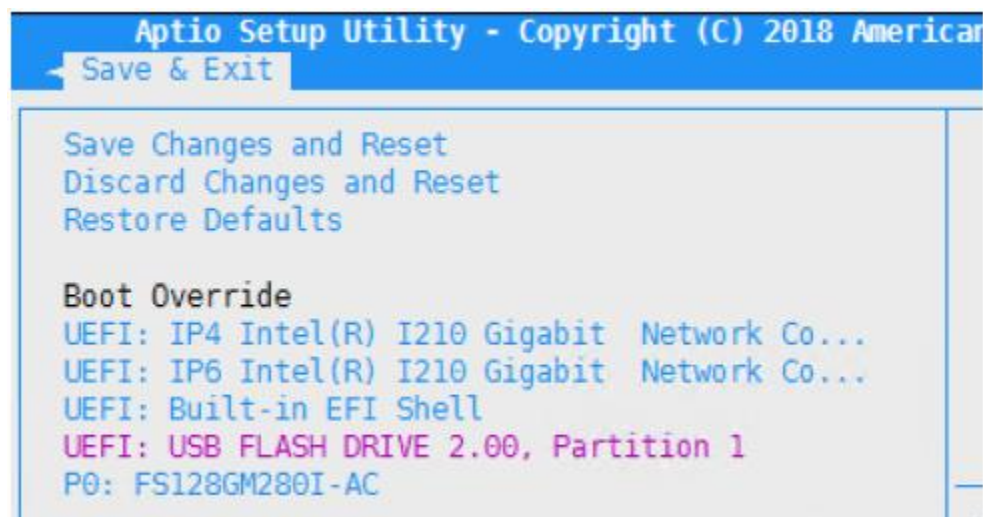
Step 2. Insert the USB-stick to the switch

Step 3. Configure BIOS

1. Reboot COM-E via openBMC, and press "ESC" enter BIOS.

```
Version 2.18.1260. Copyright (C) 2018 American Megatrends, Inc.  
Portwell, Inc. PCOM-B634VG-Barefoot BIOS Rev.:R1.00.E1 ( 04172018 )  
Press <DEL> or <ESC> to enter setup.
```

2. At [Save & Exit] page, choose "Boot Override" as [UEFI: USB...]



Step 4. Wait for the reset time and the ONIE Installer screen will pop up, select "ONIE: Embed ONIE", the system will start to reinstall the ONIE.

```
Welcome to GRUB!

GNU GRUB version 2.02

+-----+
| ONIE: Rescue
| *ONIE: Embed ONIE
|
```

Step 5. After the switch install ONIE and the system will reboot after completion. After switch boot-up, enter "ONIE" > "ONIE: Rescue" mode and check ONIE version again.

```
ONIE:/ # onie-syseeprom
...
ONIE Version      0x29  13 2018.05.00.05
CRC-32           0xFE  4 0x5A7D693A
Checksum is valid.
```