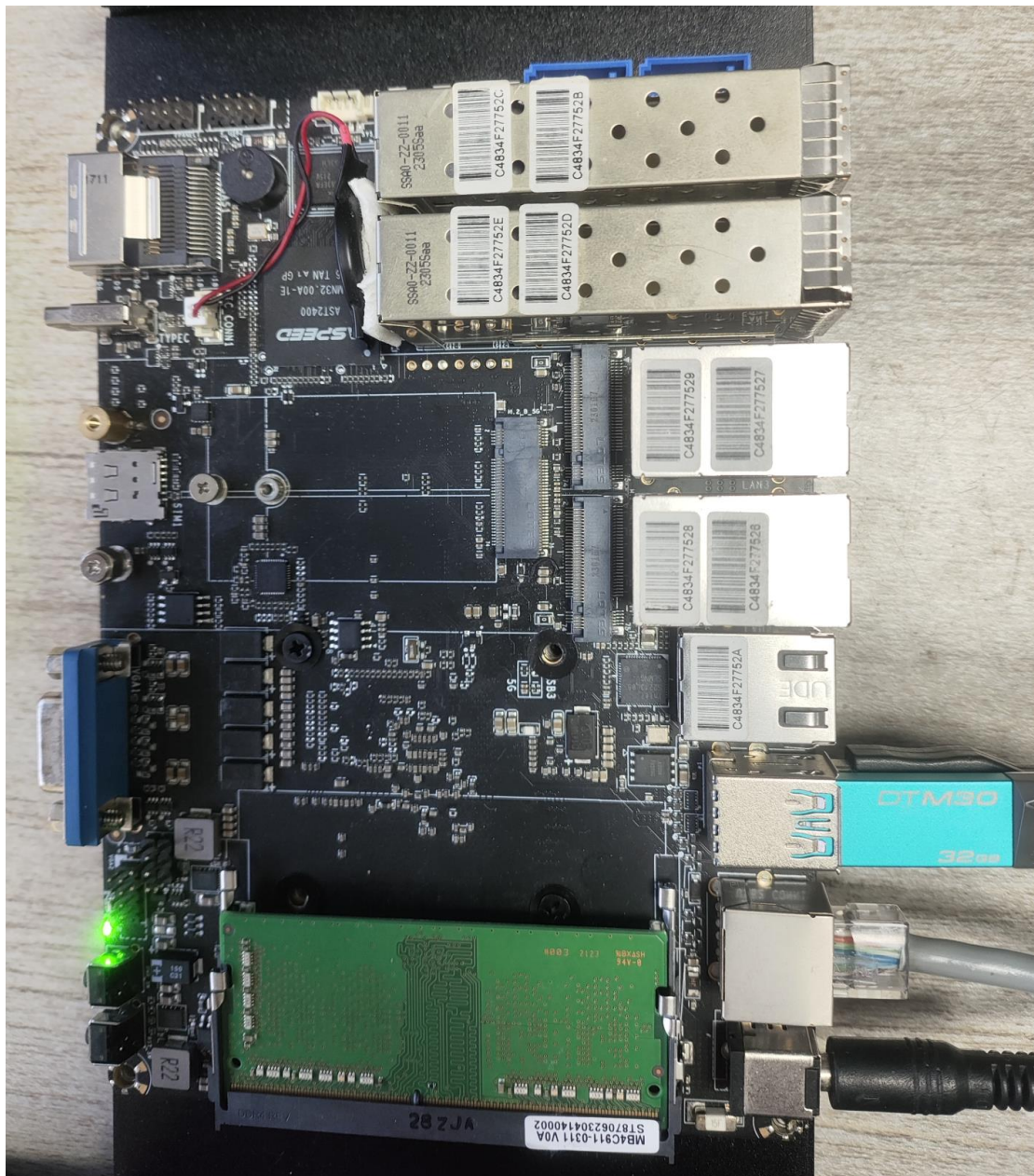# Update BIOS

For the following operations, no hard disk is installed on the motherboard, otherwise the U disk letter will be different.

the image is only a reference

1. Prepare an F32 format USB drive

   Place the BIOS file in the root directory of the USB drive

```
            80 f.nsh
            80 fdesc.nsh
            74 fm.nsh
        17,509 fparts.txt
     2,780,864 spsFPT.efi
    16,777,216 unlock.bin
    <DIR>         EFI
    16,777,216 QDNV0112.V10
            21 C378A1A7.txt
```

2. After booting up, press F7 to enter the corresponding USB drive

```
          Please select boot device:

  UEFI: Built-in EFI Shell
  KingstonDataTraveler 3.0PMAP
  UEFI: KingstonDataTraveler 3.0PMAP, Partition 1
  Enter Setup


          and  to move selection
          ENTER to select boot device
          ESC to boot using defaults
```

3. EFI SHELL enters the USB disk, which is shown here as FS0:

```
COM3 - PuTTY
EFI Shell version 2.60 [5.13]
Current running mode 1.1.2
Device mapping table
  fs0      :Removable HardDisk - Alias hd27b0b blk0
           PciRoot(0x0)/Pci(0x15,0x0)/USB(0x1,0x0)/HD(1,GPT,5F5943F2-2374-
,0x39BF000)
  blk0     :Removable HardDisk - Alias hd27b0b fs0
           PciRoot(0x0)/Pci(0x15,0x0)/USB(0x1,0x0)/HD(1,GPT,5F5943F2-2374-
,0x39BF000)
  blk1     :Removable BlockDevice - Alias (null)
           PciRoot(0x0)/Pci(0x15,0x0)/USB(0x1,0x0)

Press ESC in 3 seconds to skip startup.nsh, any other key to continue.
Shell> fs0:
```

4. Enter fs0:

```
Directory of: fs0:\<DIR>           16,384   EFI
  07/08/21  04:17p              9,664   JTA5.efi
  12/18/23  06:02p                 21   C378AA52.txt
  07/06/23  12:24p                 80   f.nsh1A7.txt
  01/27/19  05:07p                 80   fdesc.nsh
  10/25/23  11:11a                 74   fm.nsh
  09/21/18  07:17a             17,509   fparts.txt
  09/21/18  07:17a          2,780,864   spsFPT.efi
  05/15/23  10:17a         16,777,216   unlock.bin
  10/25/23  10:42a <DIR>       16,384   EFI
  07/08/21  04:17p              9,664   JTA5.efi
  12/18/23  06:00p         16,777,216   QDNV0112.V10
  12/18/23  06:00p                 21   C378A1A7.txt
         10 File(s)   36,362,745 bytes
          1 Dir(s)
```

A. Only update BIOS without updating optical port speed

1. Execute f.nsh;

2. Power off and restart.

B. Update BIOS and update SFP optical port speed(C3338R/C3558R only)

1. Execute fdesc.nsh;

2. Power off and restart.

3. Execute fm.nsh;

4. Power off and restart.

Note: After updating the optical port speed, it is necessary to rewrite the MAC address.