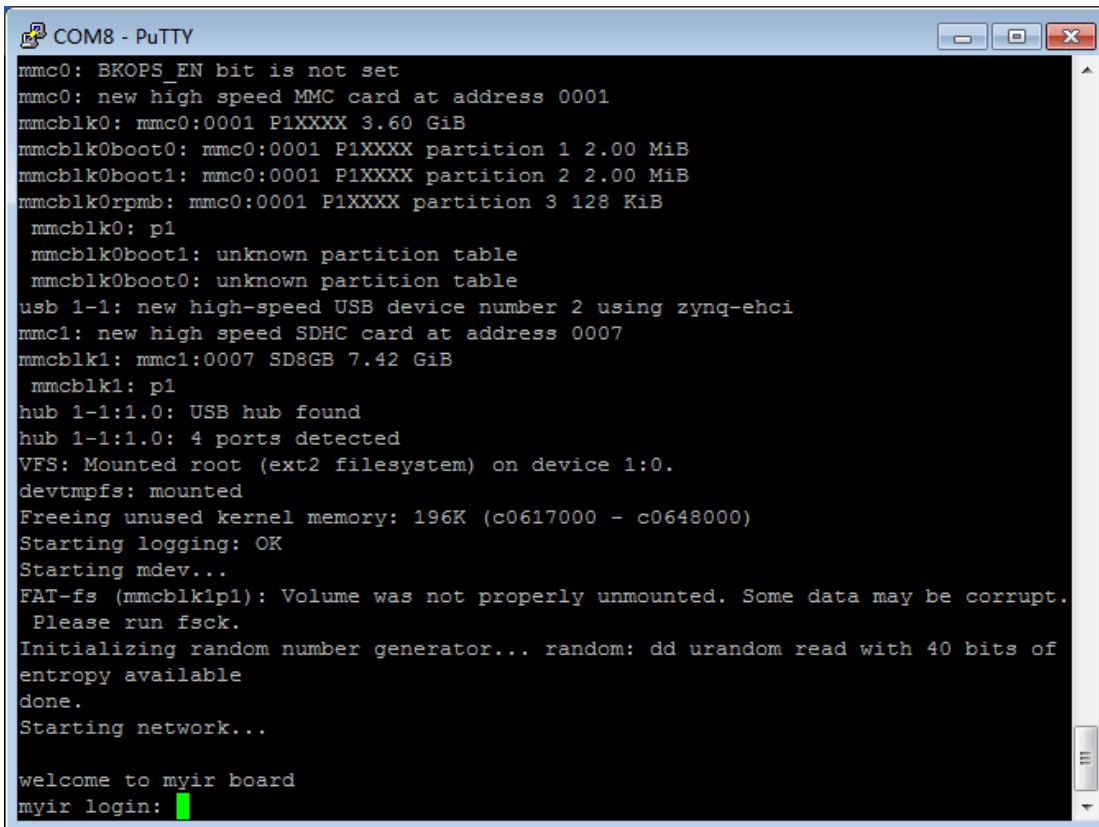


## How to test SFP of MYD-C7Z015?

1. Copy the boot files located at:  
02-Prebuilt\_Images\Ramdisk\MYD-7015-images\7015-sfp-images  
which are required by SFP from product disk to SD card.
2. Please set the boot mode from SD card. The JP2 is connected and JP3 is disconnected.  
The UART, power supply and network cables are connected on MYD-C7Z015 board.



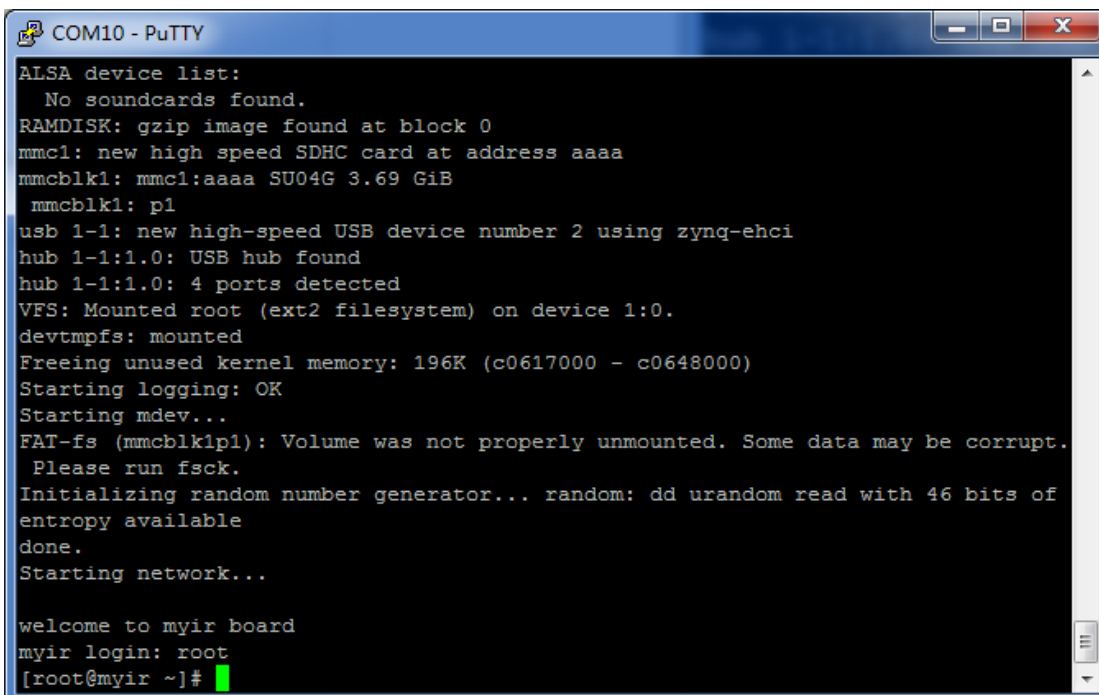
3. Insert SD card into the development board to connect to putty. You can see from putty that u-boot has started.



```
COM8 - PuTTY
mmc0: BKOPS_EN bit is not set
mmc0: new high speed MMC card at address 0001
mmcblk0: mmc0:0001 P1XXXX 3.60 GiB
mmcblk0boot0: mmc0:0001 P1XXXX partition 1 2.00 MiB
mmcblk0boot1: mmc0:0001 P1XXXX partition 2 2.00 MiB
mmcblk0rpmb: mmc0:0001 P1XXXX partition 3 128 KiB
mmcblk0: p1
mmcblk0boot1: unknown partition table
mmcblk0boot0: unknown partition table
usb 1-1: new high-speed USB device number 2 using zynq-ehci
mmc1: new high speed SDHC card at address 0007
mmcblk1: mmc1:0007 SD8GB 7.42 GiB
mmcblk1: p1
hub 1-1:1.0: USB hub found
hub 1-1:1.0: 4 ports detected
VFS: Mounted root (ext2 filesystem) on device 1:0.
devtmpfs: mounted
Freeing unused kernel memory: 196K (c0617000 - c0648000)
Starting logging: OK
Starting mdev...
FAT-fs (mmcblk1p1): Volume was not properly unmounted. Some data may be corrupt.
Please run fsck.
Initializing random number generator... random: dd urandom read with 40 bits of
entropy available
done.
Starting network...

welcome to myir board
myir login: █
```

Input password: root



```
COM10 - PuTTY
ALSA device list:
  No soundcards found.
RAMDISK: gzip image found at block 0
mmc1: new high speed SDHC card at address aaaa
mmcblk1: mmc1:aaaa SU04G 3.69 GiB
mmcblk1: p1
usb 1-1: new high-speed USB device number 2 using zynq-ehci
hub 1-1:1.0: USB hub found
hub 1-1:1.0: 4 ports detected
VFS: Mounted root (ext2 filesystem) on device 1:0.
devtmpfs: mounted
Freeing unused kernel memory: 196K (c0617000 - c0648000)
Starting logging: OK
Starting mdev...
FAT-fs (mmcblk1p1): Volume was not properly unmounted. Some data may be corrupt.
Please run fsck.
Initializing random number generator... random: dd urandom read with 46 bits of
entropy available
done.
Starting network...

welcome to myir board
myir login: root
[root@myir ~]# █
```

Check the network ports.

```
COM10 - PuTTY
ALSA device list:
  No soundcards found.
RAMDISK: gzip image found at block 0
mmc1: new high speed SDHC card at address aaaa
mmcblk1: mmc1:aaaa SU04G 3.69 GiB
  mmcblk1: p1
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Starting logging: OK
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FAT-fs (mmcblk1p1): Volume was not properly unmounted. Some data may be corrupt.
  Please run fsck.
Initializing random number generator... random: dd urandom read with 46 bits of
entropy available
done.
Starting network...

welcome to myir board
myir login: root
[root@myir ~]# ifconfig -a
```

The eth1 is just the SFP port.

```
COM10 - PuTTY
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
Interrupt:83

eth0  Link encap:Ethernet HWaddr 00:0A:35:00:01:22
      BROADCAST MULTICAST MTU:1500 Metric:1
      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
      Interrupt:54 Base address:0xb000

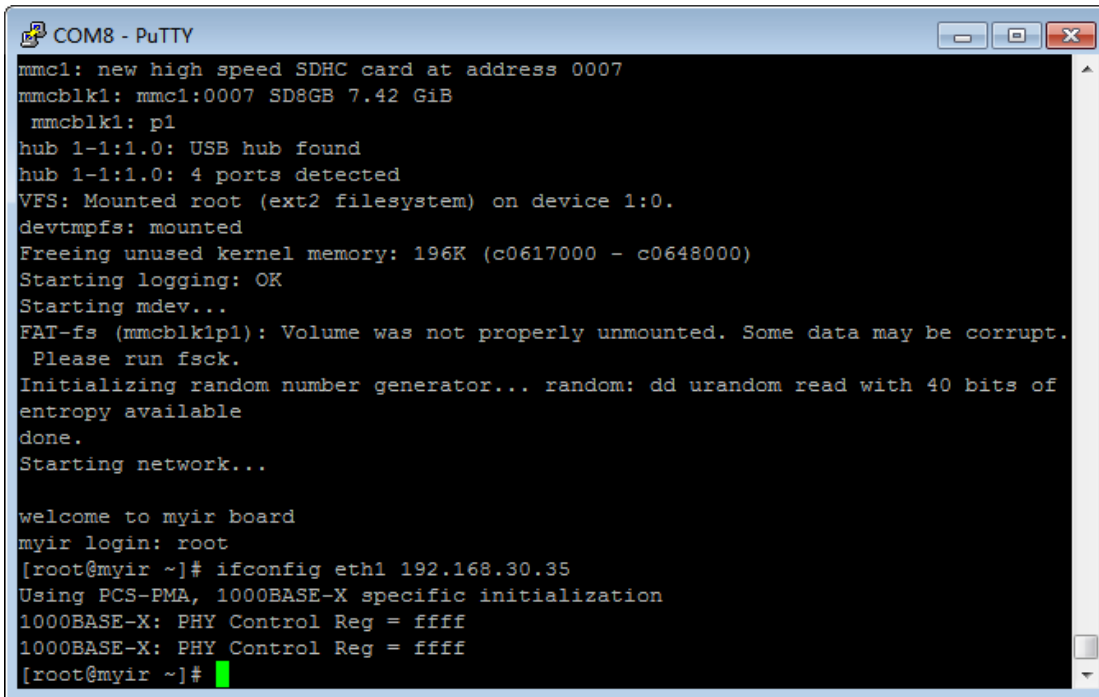
eth1  Link encap:Ethernet HWaddr 4A:F8:EE:18:18:0A
      BROADCAST MTU:1500 Metric:1
      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
      Interrupt:77 Base address:0xc000

lo    Link encap:Local Loopback
      inet addr:127.0.0.1 Mask:255.0.0.0
      UP LOOPBACK RUNNING MTU:65536 Metric:1
      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

[root@myir ~]#
```

sfp

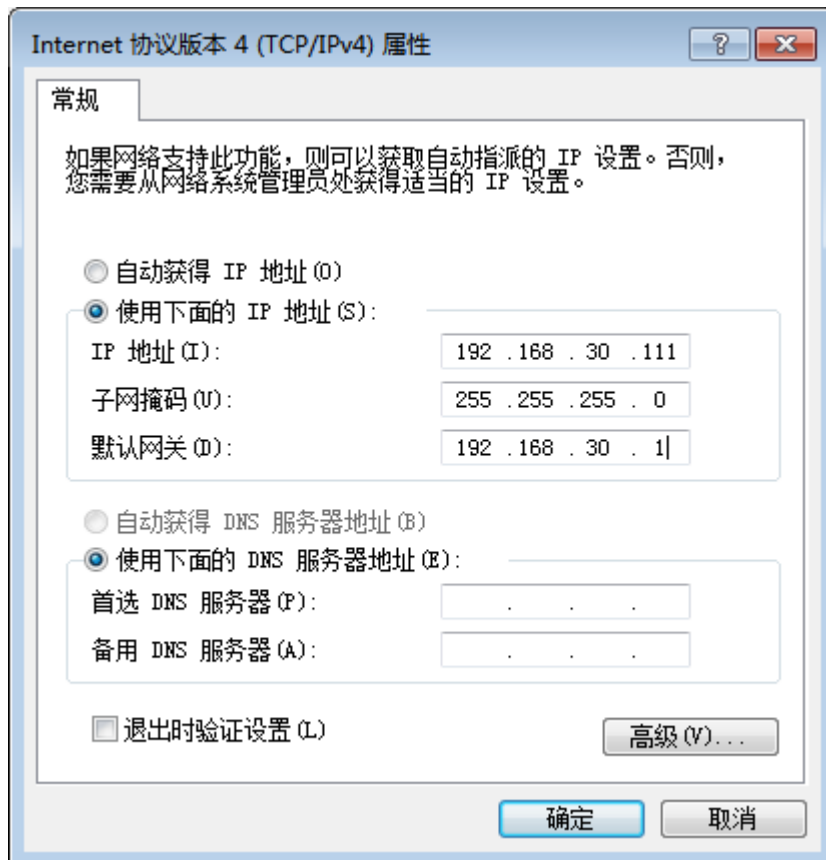
4. Set the IP address of the development board. This address can be set randomly.



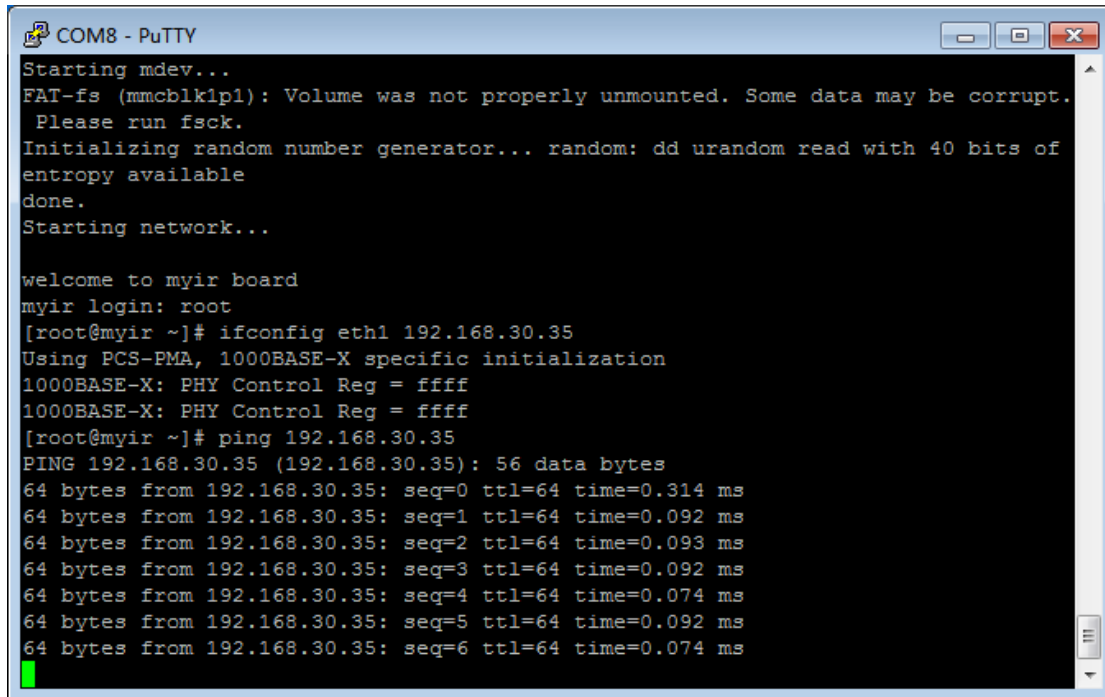
```
COM8 - PuTTY
mmc1: new high speed SDHC card at address 0007
mmcblk1: mmc1:0007 SD8GB 7.42 GiB
mmcblk1: p1
hub 1-1:1.0: USB hub found
hub 1-1:1.0: 4 ports detected
VFS: Mounted root (ext2 filesystem) on device 1:0.
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Starting logging: OK
Starting mdev...
FAT-fs (mmcblk1p1): Volume was not properly unmounted. Some data may be corrupt.
Please run fsck.
Initializing random number generator... random: dd urandom read with 40 bits of
entropy available
done.
Starting network...

welcome to myir board
myir login: root
[root@myir ~]# ifconfig eth1 192.168.30.35
Using PCS-PMA, 1000BASE-X specific initialization
1000BASE-X: PHY Control Reg = ffff
1000BASE-X: PHY Control Reg = ffff
[root@myir ~]#
```

5. Set the IP address of your PC. This address is set by yourself, but it should be set in the same network segment as shown below.



6. Please use your PC to ping the SFP IP, if it can ping through, it means the SFP works normally.



```
COM8 - PuTTY
Starting mdev...
FAT-fs (mmcblk1p1): Volume was not properly unmounted. Some data may be corrupt.
Please run fsck.
Initializing random number generator... random: dd urandom read with 40 bits of
entropy available
done.
Starting network...

welcome to myir board
myir login: root
[root@myir ~]# ifconfig eth1 192.168.30.35
Using PCS-PMA, 1000BASE-X specific initialization
1000BASE-X: PHY Control Reg = ffff
1000BASE-X: PHY Control Reg = ffff
[root@myir ~]# ping 192.168.30.35
PING 192.168.30.35 (192.168.30.35): 56 data bytes
64 bytes from 192.168.30.35: seq=0 ttl=64 time=0.314 ms
64 bytes from 192.168.30.35: seq=1 ttl=64 time=0.092 ms
64 bytes from 192.168.30.35: seq=2 ttl=64 time=0.093 ms
64 bytes from 192.168.30.35: seq=3 ttl=64 time=0.092 ms
64 bytes from 192.168.30.35: seq=4 ttl=64 time=0.074 ms
64 bytes from 192.168.30.35: seq=5 ttl=64 time=0.092 ms
64 bytes from 192.168.30.35: seq=6 ttl=64 time=0.074 ms
```