



Pronto PicOS 1.4 Installation Reference Guide

PICA8 Inc.
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1 Download the image and copy to TFTP server

1.1 Download the image

For release PicOS 1.4, please download the latest revision 7863 as following:

```
$ wget http://pica8.com/download/images/3290/pronto\_3290\_build\_r7863.tar.gz
$ wget http://pica8.com/download/images/3295/pronto\_3295\_build\_r7863.tar.gz
$ wget http://pica8.com/download/images/3780/pronto\_3780\_build\_r7863.tar.gz
$ wget http://pica8.com/download/images/3920/pronto\_3920\_build\_r7863.tar.gz
```

1.2 Copy the image to TFTP server

Suppose the tftp server's IP is 10.10.50.16, and the tftp root directory is /tftpboot, then, do the copy as following:

```
$ cp pronto_xxxx_build_r7863.tar.gz /tftpboot/
```

2 Boot the system on flash and upgrade the image

2.1 Enter the system on flash

2.1.1 Hit any key to stop the auto boot

```
....
Hit any key to stop autoboot: 0
```

2.2.2 Run the system on flash

```
=>run flash_bootcmd
```

2.2 Enter Linux shell

Diagnostic Test Main Menu v1.3 (LB9A - Linux)

```
[1 ] File Management
[2 ] Board Information
[3 ] Diagnostic Test
[4 ] Manufacturing Test Mode Set
[5 ] Test Error Log File Management
[6 ] PING
[7 ] Reset
[8 ] For Vibration Test
```

Enter your choice: <====Ctrl+D twice

2.3 Configure the management port IP

2.3.1 Dynamic IP address

If there is only one management port on your switch, using the following command to get its IP address:

```
#udhcpc
```

If there are more than one management ports, you should specify the interface using the following command instead.

```
#udhcpc --interface=eth0
```

2.3.2 Static IP address

```
#ifconfig eth0 x.x.x.x
```

2.4 Upgrade Pica8's image on CF Card or Micro-SD card

2.4.1 Mount CF or SD card

Pronto 3290/3295/3780 use the CF card and Pronto 3920 uses SD card.

For pronto3920:

```
# mount /dev/mmcblk0p1 /cf_card
```

All others:

```
# mount /dev/hda1 /cf_card
```

2.4.2 Delete old files

```
# cd /cf_card
```

```
# rm -rf *
```

Notes:

It is very important to delete the old image. Because the template files in the directory of '/pica/etc' are incompatible between PicOS Release 1.3 and 1.4. If the old templates are kept there, it may cause the boot failure of PicOS xorplus.

2.4.3 Install Pica8's image

```
#tftp -g -r pronto_XXXX_build_r7863.tar.gz -l ./pronto_XXXX_build_r7863.tar.gz  
10.10.50.16
```

```
# sync
```

```
# tar -zxvf pronto_XXXX_build_r7863.tar.gz
```

```
# rm pronto_XXXX_build_r7863.tar.gz
```

2.4.4 Synchronize the image

```
#sync
```

Notes:

The 'sync' command is very important. It will force the system to write the new

image back to the card.

2.5 Reboot the switch

reboot

3. Update U-boot bootup string for PicOS as default

If PicOS is the default boot selection, no need to change again.

3.1 Enter u-boot

....
Hit any key to stop autoboot: 0

3.2 Configure U-boot environment

For different models, the command strings are different.

3.2.1 Pronto 3290

```
=> set cfcard_bootcmd2 'setenv bootargs root=/dev/hda1 rw noinitrd
console=ttyS0,$baudrate;
ext2load ide 0:1 0x1000000 boot/ulmage;ext2load ide 0:1 0x400000
boot/LB9A.dtb;bootm
1000000 - 400000'
=>set bootcmd 'run cfcard_bootcmd2'
=>saveenv
=>reset
```

3.2.2 Pronto 3295

```
=> set cfcard_bootcmd2 'setenv bootargs root=/dev/hda1 rw noinitrd
console=ttyS0,$baudrate;ext2load ide 0:1 0x1000000
boot/ulmage;ext2load ide 0:1 0x400000 boot/LB9.dtb;bootm 1000000 -
400000'
=>set bootcmd 'run cfcard_bootcmd2'
=>saveenv
=>reset
```

3.2.3 Pronto 3780

```
=> set cfcard_bootcmd2 'setenv bootargs root=/dev/hda1 rw noinitrd
console=ttyS0,$baudrate; ext2load ide 0:1 0x1000000 boot/ulmage;ext2load
ide 0:1 0x400000 boot/LB8.dtb;bootm 1000000 - 400000'
=>set bootcmd 'run cfcard_bootcmd2'
=>saveenv
```

=>reset

3.2.4 Pronto 3920

```
=> set mmc_boot 'mmcinfo;setenv bootargs root=/dev/mmcblk0p1 rw noinitrd
console=ttyS0,115200 rootdelay=10;ext2load mmc 0:1 $loadaddr
boot/ulmage;ext2load mmc 0:1 $fdtaddr boot/LY2.dtb;bootm $loadaddr -
$fdtaddr '
=>set bootcmd 'run mmc_boot'
=>saveenv
=>reset
```

3.3 Boot with the new image

=> boot

Now, the upgrade of new image is finished. When your switch is power on again, it will run into PicOS automatically.

If there is any problem, please contact: support@pica8.org.

Thanks.

PICA8 Inc.

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