

Choose one of below methods to install driver for TDM800

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Method 1: Patch TDM800/1600 Driver for Asterisk

Before You Proceed:

1. Make sure you have already installed TDM800/1600 card and plugged in power cable.
2. Make sure you have already installed the kernel source code and gcc compiler.
3. Take version dahdi-linux-2.0.0 for example.

Begin to Install:

1. Choose a path to save the installation file, such as /usr/src
[root@localhost ~]# **cd /usr/src**
2. Download dahdi you want to use from asterisk website, such as dahdi-linux-2.0.0
[root@localhost src]# **wget <http://downloads.digium.com/pub/telephony/dahdi-linux/dahdi-linux-2.0.0.tar.gz>**
3. Download the driver patch for corresponding dahdi version. Here we take dahdi-linux-2.0.0 for example, and download the corresponding patch.
[root@localhost src]# **wget <http://www.yeastar.com/download/ystdm-dahdi-2.0.0.patch.tar.gz>**
4. Decompress the downloaded files
[root@localhost src]# **tar xzvf dahdi-linux-2.0.0.tar.gz**
[root@localhost src]# **tar xzvf ystdm-dahdi-2.0.0.patch.tar.gz**
5. Install patch
[root@localhost src]# **patch -p0 < ystdm-dahdi-2.0.0.patch**
You should see the following lines after entering the above command
patching file dahdi-linux-2.0.0/drivers/dahdi/Kbuild
patching file dahdi-linux-2.0.0/drivers/dahdi/Kconfig
patching file dahdi-linux-2.0.0/drivers/dahdi/ystdm16xx.c
patching file dahdi-linux-2.0.0/drivers/dahdi/ystdm8xx.c
Note: If it appears the lines be shown following lines
patching file dahdi-linux-2.0.0/drivers/dahdi/Kbuild
Reversed (or previously applied) patch detected! Assume -R? [n]
It indicates that you had patched something before. If you want to keep the previous patch, please refer to <[Install TDM800/1600 Driver Manually](#)>; or please delete the dahdi file and decompress and install patch again. Steps as show below:
[root@localhost src]# **rm dahdi-linux-2.0.0 -rf**
[root@localhost src]# **tar xzvf dahdi-linux-2.0.0.tar.gz**
[root@localhost src]# **patch -p0 < ystdm-dahdi-2.0.0.patch**
6. Compile and Install
[root@localhost src]# **cd dahdi-linux-2.0.0**
[root@localhost dahdi-linux-2.0.0]# **make**
[root@localhost dahdi-linux-2.0.0]# **make install**

7. Reboot to finish the installation of the card's driver

```
[root@localhost dahdi-linux-2.0.0]# reboot
```

8. Install dahdi-tools

```
[root@localhost ~]# cd /usr/src/
```

```
[root@localhost src]# wget http://downloads.digium.com/pub/telephony/dahdi-tools/dahdi-tools-2.0.0.tar.gz
```

```
[root@localhost src]# tar xzvf dahdi-tools-2.0.0.tar.gz
```

```
[root@localhost src]# cd dahdi-tools-2.0.0
```

```
[root@localhost dahdi-tools-2.0.0]# make
```

```
[root@localhost dahdi-tools-2.0.0]# make install
```

Note: The default signalling of FXS in dahdi_genconf is fxo_ls, FXS module may not work with that. You can modify the dahdi_genconf before run it or modify the file /etc/asterisk/dahdi-channels.conf after run dahdi_genconf.

#modify dahdi_genconf

vi /usr/sbin/dahdi_genconf

find the line my \$fxs_default_start = 'ls';

modify to my \$fxs_default_start = 'ks';

#modify /etc/asterisk/dahdi-channels.conf after run dahdi_genconf if you did not modify dahdi_genconf.

vi /etc/asterisk/dahdi-channels.conf

find the line signalling=fxo_ls

modify to signalling=fxo_ks

```
[root@localhost dahdi-tools-2.0.0]# dahdi_genconf
```

Note: If it appears the lines be shown following lines:

```
/usr/sbin/dahdi_genconf: Cannot read '/etc/dahdi/genconf_parameters':
```

No such file or directory

You can run touch /etc/dahdi/genconf_parameters

Then run dahdi_genconf again.

You can run dahdi_cfg -vv to show the card information

9. Modify configuration of asterisk

```
[root@localhost utils]# vi /etc/asterisk/chan_dahdi.conf
```

Add the following line at the end of the file:

#include dahdi-channels.conf

10. Patching is complete.

Method 2: Install TDM800 Driver Manually

Before You Proceed:

1. Make sure you have already installed TDM800/1600 card and plugged in power cable.
2. Make sure you have already installed the kernel source code and gcc compiler.
3. Take version dahdi-linux-2.0.0 for example.

Begin to Install:

1. Choose a path to save the installation file, such as /usr/src

```
[root@localhost ~]# cd /usr/src
```

2. Download zaptel you want to use from asterisk website, such as zaptel-1.4.10

```
[root@localhost src]# wget http://downloads.digium.com/pub/telephony/dahdi-linux/dahdi-linux-2.0.0.tar.gz
```

3. Decompress the dahdi

```
[root@localhost src]# dahdi-linux-2.0.0.tar.gz
```

4. Get driver of TDM800/1600 card from Yeostar website

Enter into zaptel file.

```
[root@localhost src]# cd dahdi-linux-2.0.0/drivers/dahdi/
```

```
[root@localhost dahdi]# wget http://www.yeostar.com/download/dahdi-linux-2.0.0/ystdm8xx.c
```

```
[root@localhost dahdi]# wget http://www.yeostar.com/download/dahdi-linux-2.0.0/ystdm16xx.c
```

```
[root@localhost dahdi]# ls
```

Then you can find the file ystdm8xx.c and ystdm16xx.c

5. Modify Kconfig and Kbuild

```
[root@localhost dahdi]# vi Kconfig
```

Add the following lines at the end of the file:

```
config DAHDI_YSTDM8XX
```

```
    tristate "Yeostar YSTDM8xx Support"
```

```
    depends on DAHDI && PCI
```

```
    default DAHDI
```

```
    ---help---
```

```
        This driver provides support for the Yeostar YSTDM8xx.
```

```
        To compile this driver as a module, choose M here: the
        module will be called ystdm8xx.
```

```
        If unsure, say Y.
```

```
config DAHDI_YSTDM16XX
```

```
    tristate "Yeastar YSTDM16xx Support"
```

```
    depends on DAHDI && PCI
```

```
    default DAHDI
```

```
    ---help---
```

```
        This driver provides support for the Yeastar YSTDM16xx.
```

```
        To compile this driver as a module, choose M here: the
        module will be called ystdm16xx.
```

```
        If unsure, say Y.
```

```
[root@localhost dahdi]# vi Kbuild
```

```
Add the following lines before obj-m += $(DAHDI_MODULES_EXTRA)
```

```
obj-$(DAHDI_BUILD_ALL)$(CONFIG_DAHDI_YSTDM8XX) += ystdm8xx.o
```

```
obj-$(DAHDI_BUILD_ALL)$(CONFIG_DAHDI_YSTDM16XX) += ystdm16xx.o
```

6. Compile and Install

```
[root@localhost src]# cd dahdi-linux-2.0.0
```

```
[root@localhost dahdi-linux-2.0.0]# make
```

```
[root@localhost dahdi-linux-2.0.0]# make install
```

7. Reboot to finish the installation of the card's driver

```
[root@localhost dahdi-linux-2.0.0]# reboot
```

8. Install dahdi-tools

```
[root@localhost ~]# cd /usr/src/
```

```
[root@localhost src]# wget http://downloads.digium.com/pub/telephony/dahdi-tools/dahdi-tools-2.0.0.tar.gz
```

```
[root@localhost src]# tar xzvf dahdi-tools-2.0.0.tar.gz
```

```
[root@localhost src]# cd dahdi-tools-2.0.0
```

```
[root@localhost dahdi-tools-2.0.0]# make
```

```
[root@localhost dahdi-tools-2.0.0]# make install
```

Note: The default signalling of FXS in dahdi_genconf is fxo_ls, FXS module may not work with that. You can modify the dahdi_genconf before run it or modify the file /etc/asterisk/dahdi-channels.conf after run dahdi_genconf.

```
#modify dahdi_genconf
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```
vi /usr/sbin/dahdi_genconf
```

```
find the line my $fxs_default_start = 'ls';
```

```
modify to my $fxs_default_start = 'ks';
```

```
#modify /etc/asterisk/dahdi-channels.conf after run dahdi_genconf if you did not modify dahdi_genconf.
```

```
Vi /etc/asterisk/dahdi-channels.conf
```

```
find the line signalling=fxo_ls
```

```
modify to signalling=fxo_ks
```

```
[root@localhost dahdi-tools-2.0.0]# dahdi_genconf
```

Note: If it appears the lines be shown following lines:

```
/usr/sbin/dahdi_genconf: Cannot read '/etc/dahdi/genconf_parameters':
```

No such file or directory

You can run `touch /etc/dahdi/genconf_parameters`

Then run `dahdi_genconf` again.

You can run `dahdi_cfg -vv` to show the card information

9. Modify configuration of asterisk

```
[root@localhost utils]# vi /etc/asterisk/chan_dahdi.conf
```

Add the following line at the end of the file:

```
#include dahdi-channels.conf
```

10. Driver Installation is complete.

For any technical support, please contact

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<End>