



Thanks for your choice of Digium's powerful line of telephony interface hardware. Each of our products comes with installation support to help you get up and running with the next generation in telecommunications equipment.

Digium's hardware requires driver software and libraries that have not yet been integrated with the Linux kernel source. You can obtain the source code for these releases from [ftp.digium.com](ftp://ftp.digium.com) or check out the latest driver code and Asterisk software from our CVS repository. Currently, driver and Asterisk development is moving rapidly, and CVS is our preferred method for distributing code. For those not familiar with CVS, it is a way to safely store source code and manage changes that is preferred by Open Source Developers. Our latest code is always at our CVS server, [cvs.digium.com](cvs://cvs.digium.com).

For an introduction to Asterisk, its configuration and features, and setting up and using Zaptel channels, obtain the document "Asterisk Handbook" from the Documentation Section at [www.asterisk.org](http://www.asterisk.org).

First of all, you will need to have the following pre-requisites in order to compile the Zaptel and Asterisk code:

- **Full Linux Kernel Source code**
- **Readline library (and headers)**
- **OpenSSL (and headers)**

Red Hat and Mandrake users can check to be sure they have these packages installed:

```
# rpm -q kernel-source readline readline-devel openssl openssl-devel
```

If you are lacking any of these packages, install them from your distribution install media before continuing. To check out the code from CVS, you will need to have the CVS packages installed on your system. Every full-featured distribution has CVS pre-packaged in binary form. If you haven't already, install CVS using your distribution's native package management or from source. Optionally, you can use the 'astinstaller' script available from [www.asterisk.org](http://www.asterisk.org) in the Documentation section. The script is written specifically for Red Hat and Mandrake and will check dependencies on those distributions. It is known to work on Debian and expected to work on all distributions, but will not be able to check the dependencies.

To check out code from our CVS repository:

```
# cd /usr/src
# export CVSROOT=:pserver:anoncvs@cvs.digium.com:/usr/cvsroot
# cvs login - the password in anoncvs.
# cvs checkout zaptel libpri asterisk
```

This will create the following directories: zaptel, libpri, and asterisk. Compiling them is generally quite straightforward. Just change to each directory and type ‘**make install**,’ in this order: Compile **zaptel**, then **Asterisk**.

```
# cd zaptel
# make clean      ; make install
# cd ../libpri
# make clean      ; make install
# cd ../asterisk
# make clean      ; make install
```

If this is your first Asterisk install, you may also get a set of sample Asterisk configuration files.

```
# make samples
```

Later on, if you want to update your source code with the latest changes, you can use cvs update to synchronize your copy with the server. You can then build in the same manner.

```
# cd /usr/src
# cvs update zaptel libpri asterisk
```

Once the drivers are installed, you will need to load them into the kernel using the program ‘**modprobe**.’ The appropriate drivers are as follows:

```
T400P/E400P      => tor2
X100P            => wcfxo
S100U            => wcusb
T100P/E100P      => wctlxxp
```

If you have any trouble compiling or installing the software, all hardware comes with installation support. You can reach the support staff at [support@digium.com](mailto:support@digium.com).



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