120 series

Hardware Installation

Please use the following directions to install your 120 series card successfully. If the instructions are not followed, your hardware may not function properly and could become damaged.
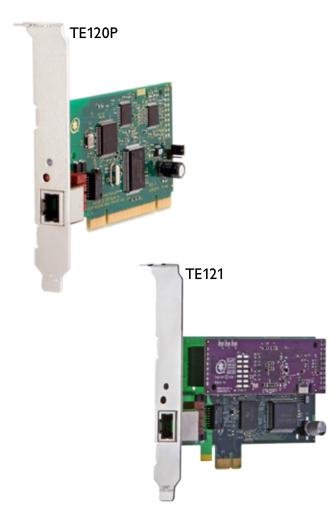
Installation Procedure

1. Power down your computer and unplug it from its power source.

2. Attach a static strap to your wrist and open the case.

3. Check the T1/E1 jumper setting to ensure it matches your equipment configuration. Setting the jumper with the strap on enables the port for E1. Setting the jumper with the strap off enables the port for T1. Please refer to the 120 series manual for more information.

4. Remove the bracket place holder and insert the card into a PCI (TE120P or TE122) or PCI Express (TE121) slot.

5. Replace the cover to your computer.

6. Power on your computer.

7. Plug the T1 or E1 equipment cable into the RJ45 port.

Driver and Asterisk Installation
At this point you will need to download the Zaptel driver library and Asterisk. To accomplish this, follow the steps on the other side of this card.

Once you have completed the software installation, all the remains is the configuration of the Zaptel driver and Asterisk. Please refer to the 120 Series user manual available at digium.com for information specific to your card.

TE120P

TE121

TE122

Asterisk® / Zaptel / Libpri
QuickStart Installation

Software Installation

Digium® hardware requires drivers and libraries that are not integrated with the Linux kernel. Digium hardware is only supported under Linux. Digium, Inc. recommends Debian/Ubuntu, Fedora, and Red Hat. You can obtain the source code from http://downloads.digium.com.

For an introduction to Asterisk®, its configuration and features, and setting up and using Zaptel channels, refer to asterisk.org.

To install your Digium® card, you will need:

* Full Linux kernel 2.6 (or later) source code.
* Development libraries and headers for libncurses (Asterisk 1.2 or Asterisk/Zaptel 1.4).
* Development libraries and headers for zlib and openssl.
* GCC and standard build tools.
* Development libraries and headers for libnewt (only necessary for Zaptel).

If you are using the 1.2.x series of Asterisk and Zaptel, you will need Asterisk 1.2.26 or newer, and Zaptel 1.2.23 or newer. If you are using the 1.4.x series of Asterisk and Zaptel, you will need Asterisk 1.4.17 or newer and Zaptel 1.4.8 or newer.

It is recommended that you use the most recent version of the Asterisk and Zaptel distributions for the best results. If you already have both Asterisk and Zaptel installed, you will need to upgrade to the latest version of both.

INSTALL
NOW!

Installation Steps

1) If you are installing a digital card, download and install the latest version of libpri that matches the branch of Zaptel and Asterisk which you are using. If you are using the 1.2.x branch, then download the 1.2.x branch of libpri. Likewise if you are using the 1.4.x branch, then obtain that version of libpri. Libpri is available from http://downloads.digium.com/pub/telephony/libpri.

2) Expand the downloaded tarball. Substitute the version of libpri you are using for the X.X in the command lines below.
   # tar -zxvf libpri-1.X.X.tar.gz
   # cd libpri-1.X.X/
   # make
   # make install

3) Download the latest Zaptel drivers (1.2.23 or later) to your /usr/src directory. The Zaptel drivers are accessible via http from http://downloads.digium.com/pub/telephony/zaptel/.

4) Expand the downloaded tarball and install the drivers. Substitute the version of Zaptel you are using for the X.X in the command lines below.

   #tar -zxvf zaptel-1.X.X.tar.gz
   #cd zaptel-1.X.X
   #make clean
   #./configure (applies to 1.4.X only)
   #make menuselect (applies to 1.4.X only if you wish to customize the install)
   #make
   #make install

5) Download the latest released version of Asterisk, either 1.2.26 (or later) or 1.4.17 (or later). Asterisk can be downloaded from http://downloads.digium.com/pub/telephony/asterisk.

6) Expand the downloaded tarballs. Substitute the version of Asterisk you are using with the X.X in the command lines below.
   # tar -zxvf asterisk-1.X.X.tar.gz
   # cd asterisk-1.X.X/
   # make clean
   # ./configure (applies to 1.4.X only)
   # make menuselect (applies to 1.4.X only if you wish to customize the install)
   # make
   # make install

   If you don't already have configuration files installed, you can type "make samples" to install the default sample configuration files. This will override your sample files.

Your installation of Zaptel and Asterisk should now be complete.

If the build fails, it may be because you are missing one of the build dependencies, the kernel source, or development tools. Feel free to contact your reseller where the card was purchased, or e-mail Digium Technical Support via support@digium.com for assistance.

Additional instructions for installing Asterisk are available at **www.asterisk.org**.

digium® | Asterisk®

www.digium.com
www.asterisk.org