

ATCOM® Analog Card AX-400P

Product Guide

Version: 1.0

The Installation of AX-400P with Trixbox 2.6.2.2

Content

CONTACT ATCOM.....	2
CHAPTER 1 THE INTRODUCTION OF AX-400P.....	3
CHAPTER 2 HARDWARE INTRODUCTION.....	4
CHAPTER 3 SOFTWARE INSTALLATION.....	7
CHAPTER 4 SOFTWARE CONFIGURATION.....	8
CHAPTER 5 REFERENCE.....	10



Contact ATCOM

The Introduction of ATCOM

Founded in 1998, ATCOM technology has been always endeavoring in the R&D and manufacturing of the internet communication terminals. The product line of ATCOM includes IP Phone, USB Phone, IP PBX, VoIP gateway and Asterisk Card.

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ATCOM Wiki Website: http://www.openippbx.org/index.php?title=Main_Page

Download Center: <http://www.atcom.cn/download.html>

Chapter 1 the Introduction of AX-400P

Overview of the AX-400P

AX-400P Asterisk card is the TDM400P compatible PCI card that supports up to four FXO and FXS ports. Using AX-400P analog card, open source Asterisk PBX and stand alone PC, users can create their SOHO telephony solution includes all the sophisticated features of traditional PBX, and extend features such as voicemail in IP PBX. User can use AX-400P analog card with standard zaptel driver and Asterisk source code without modify any code. The FXO and FXS modules are interchangeable to suit various requirements.

Features

- Analog card for Asterisk PBX
- Support Asterisk PBX and zaptel driver
- Support up to four fxo/fxs analog port
- Suitable for SOHO PBX / VoiceMail / IVR.
- Caller ID and Call waiting Caller ID
- Conference

Configuration

- Motherboard: AX-400P
- Single port FXS module: AX-110S
- Single port FXO module: AX-110X

Hardware requirement

- 500-Mhz Pentium III
- 64MB RAM
- 3.3V or 5V PCI 2.2 slot

PCI card dimension:

102mm (height) × 134mm (Length)

Chapter 2 Hardware Introduction

Hardware Configuration

Motherboard: AX-400P

Modules: AX-110X, AX-110S

Warning: Please do not plug and unplug the card when the PC power is on.

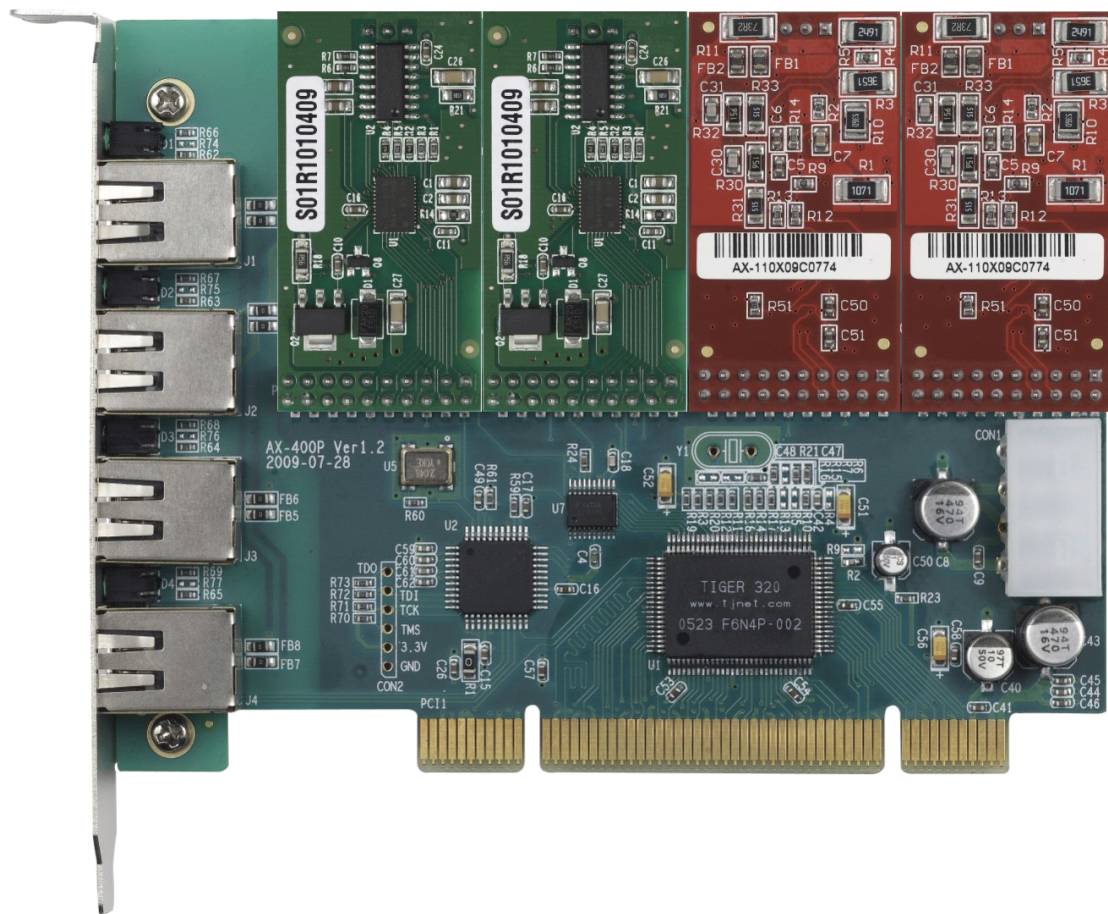


Figure 1: AX-400P with 2 AX-110S and 2 AX-110X

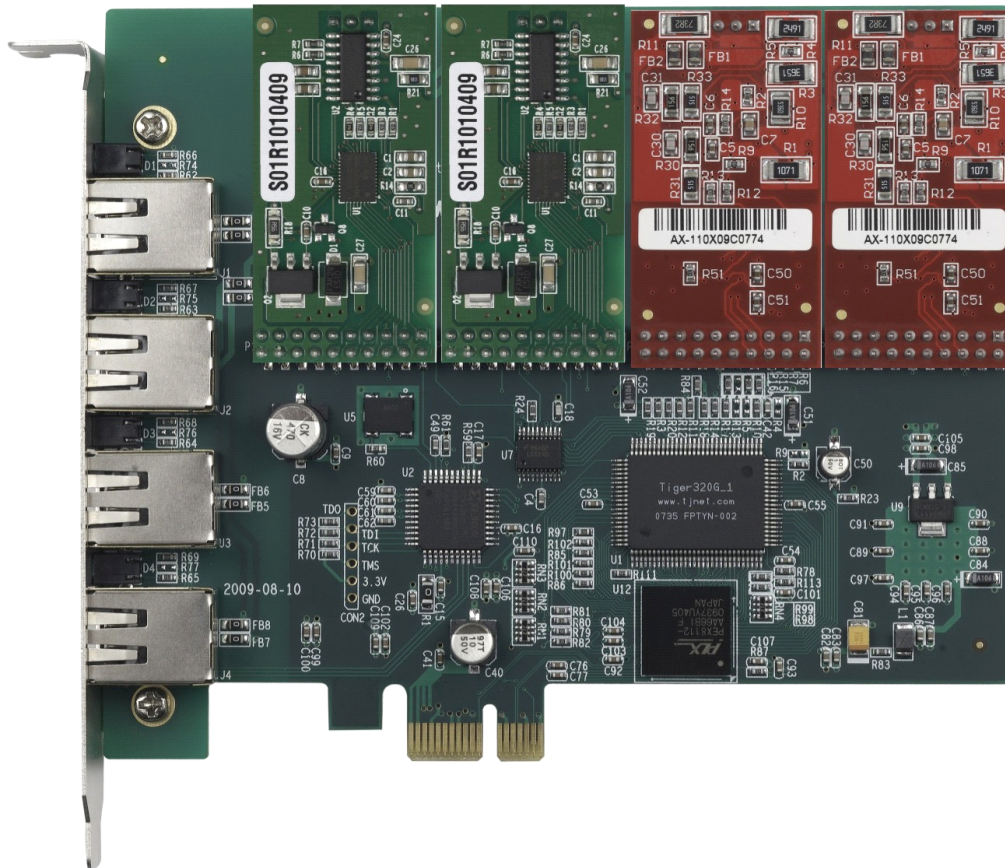


Figure 2: AXE-400P with 2 AX-110S and 2 AX-110X

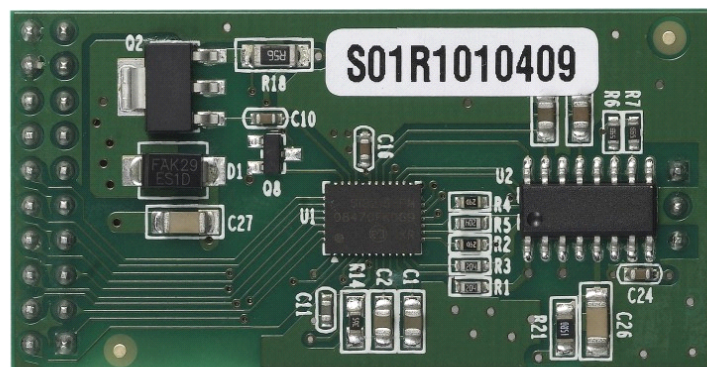


Figure 3: AX-110X Single FXS Module

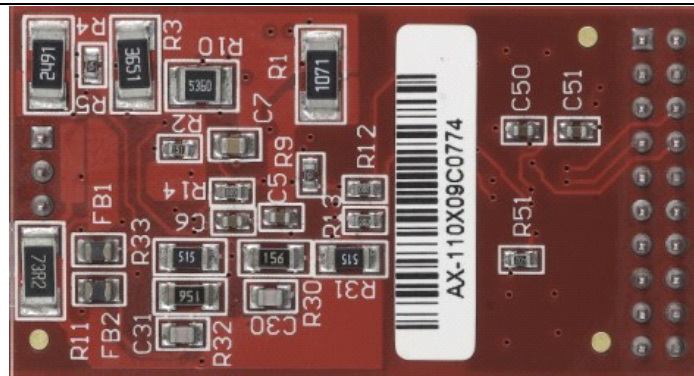


Figure 4: AX-110S Single FXO Module

Chapter 3 Software Installation

Test Environment:

Tribox 2.6.2.2
AX-400P
4 AX-110X

1. After inserting the card into your PCI slot and boot your server, please use the “lspci” command to check the PCI bus compatibility. The correct output will like the following:

```
=====
05:02.0 Communication controller: Tiger Jet Network Inc. Tiger3XX Modem/ISDN interface
=====
```

An "Tiger3XX Modem/ISDN interface" will be found, if you can not see it, please poweroff your server and try another PCI slot, if it still does not help, you have to check the compatibility issue between the card and your PCI bus.

Chapter 4 Software Configuration

1. Please use the “genzaptelconf” command to configure the /etc/dahdi/system.conf file and generate /etc/asterisk/dahdi-channels.conf file.

```
[trixbox1.localdomain ~]# genzaptelconf
```

It does not show any output if genzaptelconf run successfully.

2. To check whether it has finished the configuration, please open the system.conf file:

```
[trixbox1.localdomain ~]# vi /etc/zaptel.conf
```

You will see:

```
=====
# Autogenerated by /usr/sbin/genzaptelconf -- do not hand edit
# Zaptel Configuration File
#
# This file is parsed by the Zaptel Configurator, ztcfg
#
```

```
# It must be in the module loading order
```

```
# Span 1: WCTDM/0 "Wildcard TDM400P REV I Board 1" (MASTER)
fxsks=1
fxsks=2
fxsks=3
fxsks=4
```

```
# Global data
```

```
loadzone      = us
defaultzone   = us
```

3. [trixbox1.localdomain ~]# ztcfg -vvvvvvvvvv

You will see:

```
=====
Zaptel Version: 1.4.12.1
Echo Cancellor: OSLEC
Configuration
```

Channel map:

Channel 01: FXS Kewlstart (Default) (Slaves: 01)

Channel 02: FXS Kewlstart (Default) (Slaves: 02)

Channel 03: FXS Kewlstart (Default) (Slaves: 03)

Channel 04: FXS Kewlstart (Default) (Slaves: 04)

4 channels to configure.

4. [trixbox1.localdomain ~]# amportal restart
5. [trixbox1.localdomain ~]# asterisk -vvvvvvvvvvvgrc
6. trixbox1*CLI> zap show channels

Chan	Extension	Context	Language	MOH	Interpret
	pseudo	default	en	default	
	1	from-zaptel	en	default	
	2	from-zaptel	en	default	
	3	from-zaptel	en	default	
	4	from-zaptel	en	default	

Chapter 5 Reference

<http://www.asteriskguru.com/>

<http://www.asterisk.org/downloads>

http://www.openippbx.org/index.php?title=Main_Page

<http://www.atcom.cn/>