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# The Installation of AX-400P with Trixbox 2.8.0.3

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## 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.

### Contact sales:

Address	A2F , Block 3 ,Huangguan Technology Park , #21 Tairan 9 <sup>th</sup> Rd, Chegongmiao , Futian District , Shenzhen China , 518040
Tel	+(86)755-23487618
Fax	+(86)755-23485319
E-mail	<a href="mailto:sales@atcomemail.com">sales@atcomemail.com</a>

### Contact Technical Support:

Tel	+(86)755-23481119
E-mail	<a href="mailto:Support@atcomemail.com">Support@atcomemail.com</a>

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

ATCOM Wiki Website: [http://www.openippbx.org/index.php?title=Main\\_Page](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.

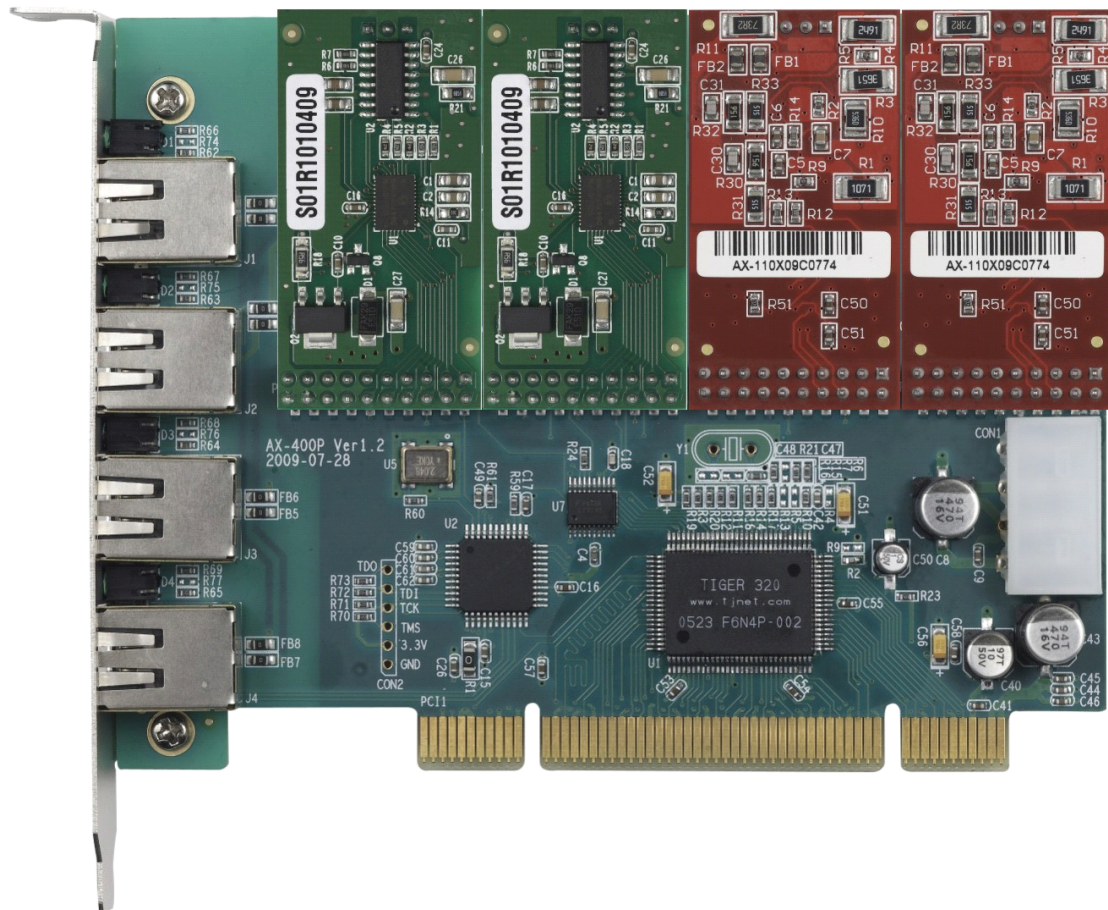


Figure 1: AX-400P with 2 AX-110S and 2 AX-110X



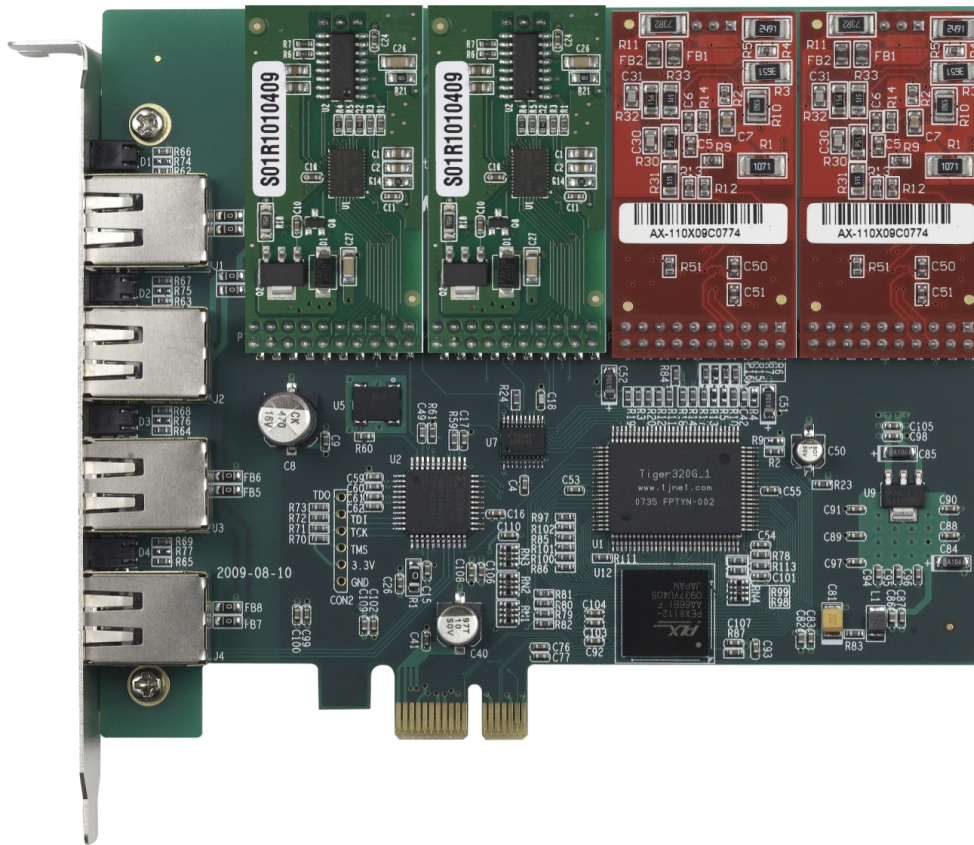


Figure 2: AXE-400P with 2 AX-110S and 2 AX-110X

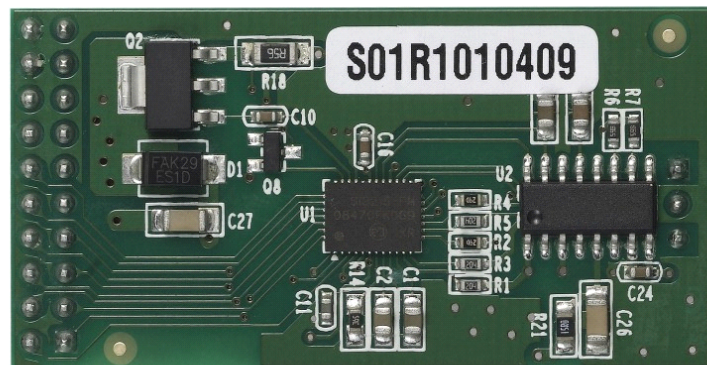


Figure 3: AX-110X Single FXS Module

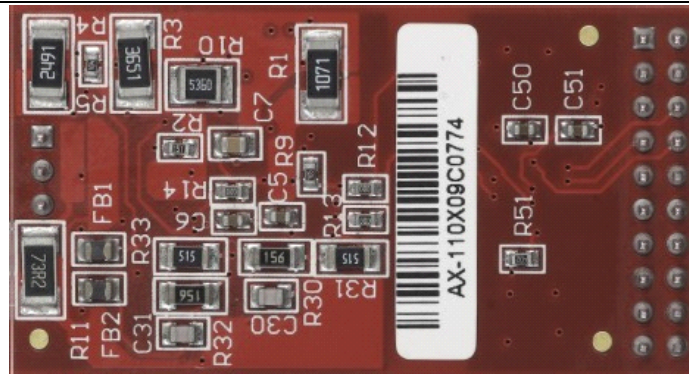


Figure 4: AX-110S Single FXO Module

## Chapter 3 Software Installation

### Test Environment:

Trixbox 2.8.0.3  
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.



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## Chapter 4 Software Configuration

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

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

It does not show any output if dahdi\_genconf run successfully.

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

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

You will see:

```
=====
# Autogenerated by /usr/sbin/dahdi_genconf on Wed May 12 02:08:55 2010
# If you edit this file and execute /usr/sbin/dahdi_genconf again,
# your manual changes will be LOST.
# Dahdi Configuration File
#
# This file is parsed by the Dahdi Configurator, dahdi_cfg
#
# Span 1: WCTDM/4 "Wildcard TDM400P REV I Board 5" (MASTER)
fxsks=1
echocanceller=mg2,1
fxsks=2
echocanceller=mg2,2
fxsks=3
echocanceller=mg2,3
fxsks=4
echocanceller=mg2,4

# Global data

loadzone      = us
defaultzone   = us

=====
```

3. [trixbox1.localdomain ~]# dahdi\_cfg -vvvvvvvvvvvvvv

You will see:

```
=====
DAHDI Tools Version - 2.2.0
```

DAHDI Version: 2.2.0  
Echo Cancellor(s): MG2  
Configuration

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Channel map:

Channel 01: FXS Kewlstart (Default) (Echo Canceler: mg2) (Slaves: 01)  
Channel 02: FXS Kewlstart (Default) (Echo Canceler: mg2) (Slaves: 02)  
Channel 03: FXS Kewlstart (Default) (Echo Canceler: mg2) (Slaves: 03)  
Channel 04: FXS Kewlstart (Default) (Echo Canceler: mg2) (Slaves: 04)

4 channels to configure.

Setting echocan for channel 1 to mg2  
Setting echocan for channel 2 to mg2  
Setting echocan for channel 3 to mg2  
Setting echocan for channel 4 to mg2

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4. [trixbox1.localdomain ~]# amportal restart
5. [trixbox1.localdomain ~]# asterisk -vvvvvvvvvgrc
6. trixbox1\*CLI> dahdi show channels  
You will see:

---

Chan	Extension	Context	language	MOH Interpret	Blocked	State
pseudo		from-pstn	en	default		In Service
1		from-pstn	en	default		In Service
2		from-pstn	en	default		In Service
3		from-pstn	en	default		In Service
4		from-pstn	en	default		In Service

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## Chapter 5 Reference

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

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

[http://www.openippbx.org/index.php?title=Main\\_Page](http://www.openippbx.org/index.php?title=Main_Page)

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