

How to Install and Configure AX4G in Trixbox2.8.0.4

Download the driver of AX4G for Trixbox2.8.0.4.

1. Please download ax4g_trixbox2.8.0.4 from ATCOM website.

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

```
[root@localhost src]# wget http://www.atcom.cn/downloads/TelephonyCard/drivers/AX-4G/ax4g\_trixbox2.8.0.4.tar.gz
```

2. Untar the ax4g_trixbox2.8.0.4.tar.gz file.

```
[root@localhost src]# tar -xzf ax4g_trixbox2.8.0.4.tar.gz
```

```
[trixbox1.localdomain src]#  
[trixbox1.localdomain src]#  
[trixbox1.localdomain src]# tar -xzf ax4g_trixbox2.8.0.4.tar.gz █
```

3. Please run the following command to install the script:

```
[root@localhost src]# cd trixbox_ax4g_driver
```

```
[root@localhost src]# ./ax4g_install.sh
```

```
[trixbox1.localdomain src]# cd trixbox_ax4g_driver/  
[trixbox1.localdomain trixbox_ax4g_driver]# ls  
ax4g_install.sh bak log patches src  
[trixbox1.localdomain trixbox_ax4g_driver]# ./ax4g_install.sh █
```

When the script starts to run, the following illustration will be presented in your screen:

```

*****
@@          Atcom ax4g card install script          @@
@@                V1.0.1                          @@
@@                Welcome you to use                @@
@@                Copyright(c) 2010-2012 Atcom Co., Ltd.  @@
*****

Trixbox Version = 2.8.0.4
http://yum.trixbox.org/trixbox/2.8/SRPMS/asterisk16-1.6.0.26-1_trixbox.src.rpm
http://yum.trixbox.org/trixbox/2.8/SRPMS/dahdi-linux-2.3.0.1-1_trixbox.src.rpm
--2011-05-12 17:11:30-- http://google-coredumper.googlecode.com/files/coredump
Resolving google-coredumper.googlecode.com... 64.233.183.82
Connecting to google-coredumper.googlecode.com|64.233.183.82|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 28109 (27K) [application/x-rpm]
Saving to: `coredumper-devel-1.2.1-1.i386.rpm'

100%[=====
2011-05-12 17:11:36 (5.82 KB/s) - `coredumper-devel-1.2.1-1.i386.rpm' saved [28

Preparing...          ##### [100%]
package coredumper-devel-1.2.1-1.i386 is already installed
Loaded plugins: fastestmirror, kmod
Loading mirror speeds from cached hostfile

```

This process of installing the script will cost about one hour normally, if get any errors and the script is stopped, you should check the error and install it again, if you finish the installation successfully, you can get the following illustration:

```

*****
@@          Atcom ax4g card install script          @@
@@                V1.0.1                          @@
@@                Welcome you to use                @@
@@                Copyright(c) 2010-2012 Atcom Co., Ltd.  @@
*****

#####
Finish install Atcom ax4g card driver for 2.8.0.4 !
You can use the list commands to show ax4g card status :

    asterisk -rx dahdi show channels
    dahdi_cfg -vvv
#####

[trixbox1.localdomain trixbox_ax4g_driver]# █

```

4. Start asterisk

Please use the command to start asterisk in the following illustration.

```

amportal restart
asterisk -vvvgrc

```

```
[trixbox1.localdomain src]#  
[trixbox1.localdomain src]# asterisk -vvvvvgrc  
Asterisk 1.6.0.26-FONCORE-r78, Copyright (C) 1999 - 2010 Digium, Inc. and others.  
Created by Mark Spencer <markster@digium.com>  
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for details.  
This is free software, with components licensed under the GNU General Public  
License version 2 and other licenses; you are welcome to redistribute it under  
certain conditions. Type 'core show license' for details.  
=====
```

== Parsing '/etc/asterisk/asterisk.conf':	== Found
== Parsing '/etc/asterisk/extconfig.conf':	== Found

```
Connected to Asterisk 1.6.0.26-FONCORE-r78 currently running on trixbox1 (pid = 20549)  
Verbosity is at least 10
```

5. Reload the asterisk

Please use the command: reload in the following illustration.

```
[trixbox1.localdomain src]# asterisk -vvvvvgrc  
Asterisk 1.6.0.26-FONCORE-r78, Copyright (C) 1999 - 2010 Digium, Inc. and others.  
Created by Mark Spencer <markster@digium.com>  
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for details.  
This is free software, with components licensed under the GNU General Public  
License version 2 and other licenses; you are welcome to redistribute it under  
certain conditions. Type 'core show license' for details.  
=====
```

== Parsing '/etc/asterisk/asterisk.conf':	== Found
== Parsing '/etc/asterisk/extconfig.conf':	== Found

```
Connected to Asterisk 1.6.0.26-FONCORE-r78 currently running on trixbox1 (pid = 20549)  
Verbosity is at least 10  
trixbox1*CLI> reload
```

6. Check whether asterisk has detected AX4G channels or not. Please use the command: dahdi show channels

```
trixbox1*CLI>  
trixbox1*CLI> dahdi show channels
```

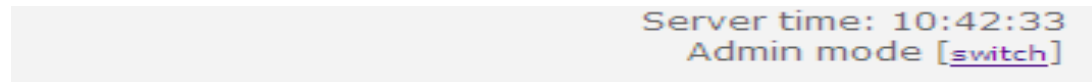
Chan	Extension	Context	Language	MOH Interpret	Blocked	State
pseudo		default	en	default		In Service
1		from-pstn	en	default		In Service
2		from-pstn	en	default		In Service
3		from-pstn	en	default		In Service
4		from-pstn	en	default		In Service

```
trixbox1*CLI>
```

Configure AX4G in the webpage of Trixbox 2.8.0.4.

1. Log into Trixbox webpage

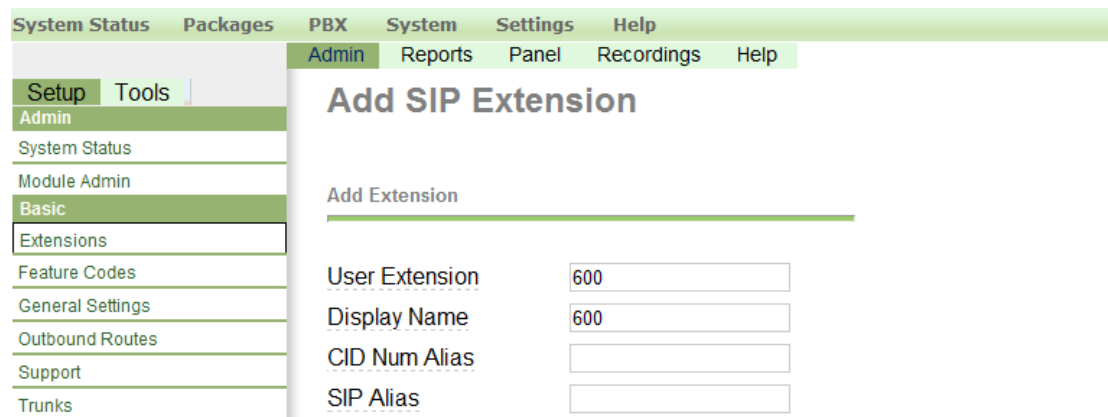
Please open your browser and enter the service (PBX) IP address, then click the button: switch as following:



Then input Username: maint; password: password. Then click on login button.

2. Add a sip extension

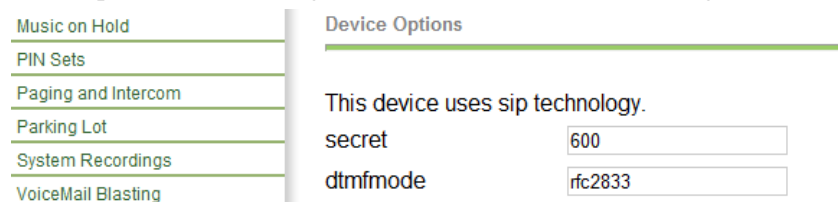
Please add a sip extension as following: input the User Extension number and Display Name number.



The screenshot shows the Trixbox administration interface. The top navigation bar includes 'System Status', 'Packages', 'PBX', 'System', 'Settings', and 'Help'. Below this, there are sub-menus for 'Admin', 'Reports', 'Panel', 'Recordings', and 'Help'. The left sidebar contains a tree view with categories like 'Setup', 'Tools', 'Admin', 'System Status', 'Module Admin', 'Basic', 'Extensions', 'Feature Codes', 'General Settings', 'Outbound Routes', 'Support', and 'Trunks'. The main content area is titled 'Add SIP Extension' and contains the following form fields:

User Extension	<input type="text" value="600"/>
Display Name	<input type="text" value="600"/>
CID Num Alias	<input type="text"/>
SIP Alias	<input type="text"/>

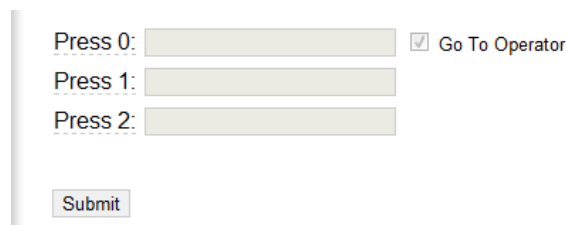
Then input the secret: using the extension number as following:



The screenshot shows the 'Device Options' section of the Trixbox interface. The left sidebar lists options like 'Music on Hold', 'PIN Sets', 'Paging and Intercom', 'Parking Lot', 'System Recordings', and 'VoiceMail Blasting'. The main content area is titled 'Device Options' and contains the following form fields:

secret	<input type="text" value="600"/>
dtmfmode	<input type="text" value="rfc2833"/>

Click the submit button in the following illustration.



The screenshot shows a form with three input fields labeled 'Press 0:', 'Press 1:', and 'Press 2:'. To the right of these fields is a checkbox labeled 'Go To Operator' which is checked. Below the input fields is a 'Submit' button.

At last, click the Apply Configuration Changes in the top of the screen.



3. Set up trunks for outgoing calls and incoming calls.

Click the button: trunks, and the button: Add Zap Trunk:

Add a Trunk

Add Zap Trunk (DAHDI compatibility mode)

Add IAX2 Trunk

Add SIP Trunk

Add ENUM Trunk

Add DUNDi Trunk

Add Custom Trunk

In the General Settings part, input Display Name in the following illustration.

General Settings

Outbound Caller ID:	<input type="text" value="t trunk1"/>
Never Override CallerID:	<input type="checkbox"/>
Maximum Channels:	<input type="text"/>
Disable Trunk:	<input type="checkbox"/> Disable
Monitor Trunk Failures:	<input type="checkbox"/> Enable

In the Outgoing Settings part, please choose Zap Identifier (trunk name): g0. Then click the button: submit at the bottom of the screen.

Outgoing Settings

Zap Identifier (trunk name):	<input type="text" value="g0"/>
	<input type="button" value="Submit Changes"/>

Then, click the “Apply Configuration Changes Here” bar in the top of the screen.



4. Add Outbund Routes

Please click “0 outside9 ”button, keep the default parameters in the following screen. Please refer to the following illustration:

Add Route

Route Name:
 Route Password:
 PIN Set:
 Emergency Dialing:
 Intra Company Route:
 Music On Hold?:

English

Add Route
0 outside9

Dial Patterns

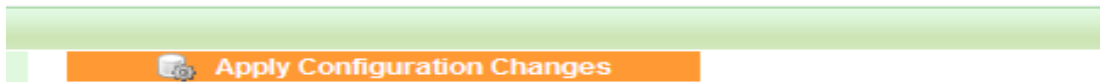
9].

Dial patterns wizards:

Trunk Sequence

Submit Changes

Then , click the “Apply Configuration Changes Here” bar in the top of the screen.



5. Add Inbound Routes

Click the button:inbound Routes, Then input the Description: name it yourself.

Admin Reports Panel Recordings Help

Route: incoming1

Edit Incoming Route

Description:
 DID Number:
 Caller ID Number:
 CID Priority Route:

English

And set up destination of extensions: Click the Extensions textbox, choose an extension number from the drop down selection box. Then click submit. Please refer to the following illustration:

Set Destination

Phonebook Directory:
 Terminate Call:
 Extensions:

Then , click the “Apply Configuration Changes Here” bar in the top of the screen.

