

DM400A Hardware

Installation and User's Manual

DMLink



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1. Content

This is the DM400A hardware installation and user's manual and is shipped with DM400A. This document includes the following:

- Overview: Production introductions, including important characters. Please refer to product introduction: DM400A-ENG.PDF for details.
- Hardware installation: Step-by-step how to do when you get the product packages. It will assure that all your gotten is complete and to install it easily and successfully.
- Configuration: How to configure DM400A in Asterisk and Trixbox packages.

If you want to know the installation processes of Asterisk and Zaptel, please refer to our Asterisk&Zaptel quick installation guide.

If you want to know more about our warranty, quality assurance and maintenance rules: DMLink Asterisk telephony card warranty rules.

2. Overview

DM400A is a telephony interface card which connects your private telephony system with PSTN network. One DM400A can provide 1-4 FXO or FXS telephony interface. The phone line coming from telecommunication carriers is connected with FXO port. The phone is connected with FXS port.

DM400A is completely compatible with Digium TDM400P.

One DM400A has four telephony module slots. Each slot can be inserted with one FXO or FSX module. DMLink's telephony interface modules are DM S100M and DM X100M, which is pin-to-pin compatible with Digium's S100M and X100M.

DM400A provides the power slot and should be connected with computer power resources when FXS exists. No external power supply is needed. When all the modules are FXO, no power resource need to be connected.

3. Hardware installation

3.1 Unpacking product

Upon receiving the product package, please check the following aspects carefully:

- Carefully inspect it for any damage that may have occurred in shipment. Pay special attention if any damage has been inspected in the outer box.
- Shipment Inspection: Please check for every items listed in the packing list. Check if it is identical with your order in the aspects of model, configuration and accessories. FXO module is RED and FXS module is GREEN.

If any above-mentioned problems have been found, please contact with the reseller or DMLink sales directly.

If the mail box has been damaged obviously, please notify carrier. Any question or problem, please let reseller or DMLink sales know it immediately.

Keep the original shipping container to use for future shipment or proof of damage during shipment.

DMLink contact information: 86-755-83362418, dm.asterisk@gmail.com.

3.2 Card installation

Only qualified service personnel should be allowed to install the card. Specialist, the qualified person should at least have sufficient computer and telephony training.

To install the card as the following steps:

- (1) Power down your computer and unplug it from AC power supply.
- (2) Open the case;
- (3) Insert the card into a 3.3 or 5 volt PCI slot(PCI 2.2 or greater);
- (4) If there are any FXS modules in the card, the power cable from your computer's power supply should be connected to the bottom of the card. Insert a four-pin 12 volt connector into the white plastic connector on the bottom of the card.
- (5) Please note down the model and sequences of telephony modules. It will be needed in the zaptel.conf.

- (6) Close the case
- (7) Connect phone line with FXO port and phone with FXS.
- (8) Now you can turn on your computer.

The installation of the telephony card has been finished.

4、 Configuration

To finish the DM400A telephony interface configurations, two configuration files should be modified: /etc/zaptel.conf and /etc/asterisk/zapata.conf.

4.1 Zaptel.conf

zaptel.conf is the hardware driver configuration file. It sets up the working mode of the card.

The following lines should be included:

```
=====  
fxsks=1 // The first port is FXO  
fxoks=2 // The second port is FXS  
fxsks=3  
fxoks=4  
=====
```

Notes: Please setup as your actual configuration which you have noted in a paper when your install the card.

4.2 Zapata.conf

zapata.conf is setup for the zaptel channel for Asterisk:

The following lines should be included:

```
=====  
signalling=fxs_ks  
context=from-zaptel  
group=0  
channel => 1  
signalling=fxo_ks  
context=from-internal
```

```
group=1
channel => 2
signalling=fxs_ks
context=from-zaptel
group=0
channel => 3
signalling=fxo_ks
context=from-internal
group=1
channel => 4
=====
```

Notes: The setup should be identical with the actual module configuration.

4.3 Trixbox configuration

If you choose to install Trixbox, it will be very easy to configuration for analogy telephony card. The command 'genzaptelconf' will be help you to finish it automatically.