



OpenVox FD182 User Manual









OpenVox-Best Cost Effective Asterisk Cards

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FD182 Description

In most of the time, users need to reconnect the BRI/PRI line to a redundant server maintained by UPS when main PBX Server is power off. It may cause a little extra work for people who use simple and small PBX servers. But for those who run complex PBXs in server rooms, it becomes real problems.

How to eliminate this problem? The release of OpenVox FD182 failover box for BRI/PRI answers it. The FD182 can automatically switch the BRI/PRI line to the redundant server when the power of the main PBX server has been cut off and will automatically switch back to normal when the power is on again. In this way, no more worries about getting the BRI/PRI line connected to the redundant server when the main server is down.

FD182 is controlled through an Asterisk loadable module res_failover.so. This module keeps sending "running" signal to redundant server when Asterisk is running. Once Asterisk is down or system power is cut off, the module will not be able to send out the "running" signal to FB40/FD40 and thus FD182 will automatically switch to the redundant server.

FD182 provides a reliable and flexible solution to Asterisk PBX.

FD182 Features

- FD182 contains 8 E1 / T1 / BRI ports and two Ethernet ports.
- Easy installation; uses USB to connect computer or server. In order to provide more stable power supply, a USB interface for two connected hosts.
- Industry standard USB type B connector.
- USB 2.0 and 1.1 compliant.
- FD182 supports all OpenVox D series and B series cards, Digium and other compatible digital cards.
- Two indicator lights, red and green. Two lights, said an Asterisk work normal, FD182 work. Only when green light said Asterisk hangs, FD182 switch to the backup phone.
- Supports multiple FD182 devices in one system. Support the BRI or PRI circuit connection.
- Each network interface is divided into four mouth end, A, B, C, D, respectively, the interface of A and B are connected. Digital card.net client any end of the connection of A and B, redundant one interface can according to your needs, our TAP the card, to record, so as to meet your requirement for functional diversification. C and D connected to digital card of CPE, D is one end of the primary server, C



is the standby server. For cable connection, LAN received any end of the A or B, D connected to the main network, C connect backup network.

FD182 Installation Guide

Hardware Connection



Device Driver Detection

The device driver of FD182 has been integrated with many Linux distributions. Users can run the following command to see if the FD182



has been recognized or detected by the system.

dmesg | grep FTDI

🛃 root(llytest:~	
[root@1	ytest ~]# lsusb	^
Bus 003	Device 002: ID 0403:6001 Future Technology Devices	Interna
tional,	Ltd FT232 USB-Serial (UART) IC	6
Bus 003	Device 001: ID 0000:0000	
Bus 005	Device 001: ID 0000:0000	
Bus 004	Device 001: ID 0000:0000	
Bus 002	Device 001: ID 0000:0000	
Bus 001	Device 001: ID 0000:0000	~

User can also run the lsusb command to check if the FD182 device is

connected.

Isusb

🛃 root(lytest:	*							
[root@lytest ~]# lsusb 🔥									
Bus 003	Device	002:	ID	0403:6001	Future	Technology	Devices	Interna	
tional,	Ltd FT2	232 U:	5B-2	Serial (UAN	RT) IC			<i></i>	
Bus 003	Device	001:	ID	0000:0000		1			
Bus 005	Device	001:	ID	0000:0000					
Bus 004	Device	001:	ID	0000:0000				-	
Bus 002	Device	001:	ID	0000:0000					
Bus 001	Device	001:	ID	0000:0000				×	





FD182 Working Instruction

As shown:

When the PBX Server is ON and Asterisk works, the signal goes from:

1->LAN(red) 2->Main Network(green)

When the power of PBX cut off or Asterisk abnormal work, the signal

goes form:

1->LAN(red) 2->Redundant Network(purple)





FD182 Software Installation

Before installation, make sure the host system (LINUX) is running good, whether the DAHDI and Asterisk installation well, whether boards (Analog cards) drivers have loaded into the system. If you buy our cards, has not yet installed, you can go to our official website to download the user manual, then install. After everything installed, and then into the following steps.

Software Download

#wget

www.openvox.cn/pub/drivers/failover/failover-1.0.1.tar.gz

Software Installation

1)Unzip the file

#tar –xvzf failover-1.0.1.tar.gz

#cd failover

2)Copy the file to res directory under asterisk

cp res_failover.c /usr/src/asterisk-**/res/

3)Copy the configuration file to /etc/asterisk directory

cp failover.conf /etc/asterisk/



4)Compile and install

#cd /usr/src/asterisk-**/

#make

#make install

5)Reboot asterisk

#reboot

Explanation of Configuration Files

[openvox_failover_1] device=/dev/ttyUSB0 ; Kick the soft watchdog every 4000ms ; default value: 4000 ; Between 100ms and 9000ms ;kick_time_interval=4000 ;event_cmd=no ;event_cmd=logger ; default value: yes autorun=yes

;[openvox_failover_2] ;device=/dev/ttyUSB1 ;kick_time_interval=500 ;event_cmd=logger ;autorun=yes

- [openvox_failover_1]: Name of FD182 Device, to distinguish from different devices, a must to configuration;
- device=/dev/ttyUSB0: Name of USB device that FD182 uses, a must to configuration;
- kick_time_interval: the time interval of software watch dog; the

default time is 4000ms, user can customize the time with 100ms for Minimum and 9000ms for Maximum;

- event_cmd: event command, the default is logger, it will record the FD182 status in system log;
- autorun: this decides if FD182 will start when asterisk boots; the default is yes which means the FD182 starts when asterisk boots; if no, the FD182 will not start when asterisk boots and user may need manually boot the device by running failover start command.

Steps to Use

1)Start asterisk

asterisk –vvvgc

2)Start FD182 device

*CLI> failover start

3)Stop FD182 device

*CLI> failover stop

4)Show FD182 device information

*CLI> failover show

5)Reload FD182 device configuration file

*CLI> failover stop
Before reload the configuration file, must stop all FD182 device
*CLI> failover reload
Reload the configuration file



6) Check the connection

*CLI>pri show spans

7)Reboot DAHDI

*CLI>dahdi restart

Technical Support

If you meet any technical problems when using OpenVox products, you can check our Forum for help or contact us directly be the following ways:

i. BBS feedback problems

You can put your issued to our BBS encountered technical problems, we will in the shortest possible time solve the problem of you mentioned.

http://bbs.openvox.cn/

ii. Email Support

You can email your technical problems to the following emails:

support@openvox.com.cn

Unless it is an emergency, this is always the most efficient way to get support.

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