



How to use SD Card and USB Flash Disk

ATCOM[®]
Product Guide

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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.

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

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

How to use SD Card and USB flash Disk

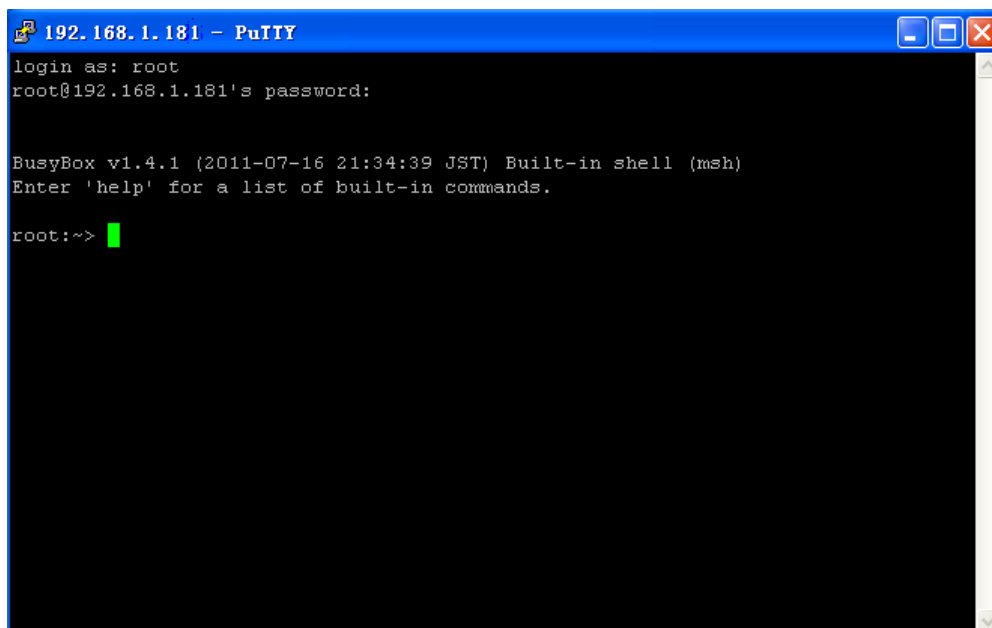
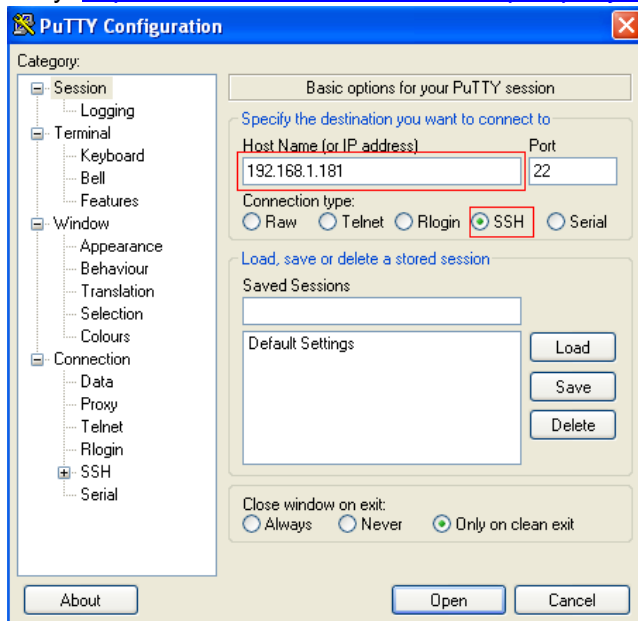
1. SD Card

NOTE: IPPBX just recognize Kingston 2G SD Card currently.

1.1 Detection

1) Please login IPPBX via SSH (user/password:root/12xerXes16)

Putty : <http://www.atcom.cn/cn/download/pbx/putty.exe>



2) Run command **df** to check if your SD card is detected.

Once the SD card is detected, it will be mounted to /mnt/sd directory by default.

```
root:~> df
Filesystem            1k-blocks      Used Available Use% Mounted on
/dev/mtdblock0         14327        13663         664  95% /
/dev/mtdblock2        251904         3112      248792   1% /persistent
/dev/mmc               1926912        1248     1925664   0% /mnt/sd
```

And the asterisk log information will be stored in it (/mnt/sd/ directory) by default.

```
root:~> cd /mnt/sd
root:/mnt/sd> ls
default  asterisk
root:/mnt/sd> cd asterisk/
root:/mnt/sd/asterisk> ls
exist_iptables.txt  queue_log      cdr-custom
messages            event_log      cdr-csv
```

1.2 Mount

The SD card will be mounted by default, so you are just allowed to use the /mnt/sd/ directory for external storage.

2. USB Flash Disk

NOTE: IPPBX support up to 256G USB Flash Disk theoretically. In our test, 32G works very well.

2.1 Detection

- 1) Please login IPPBX via SSH (user/password:root/12xerXes16)
- 2) Run command **fdisk -l** to check if your USB Flash Disk is detected.

```
root:~> fdisk -l

Disk /dev/sda: 255 heads, 63 sectors, 486 cylinders
Units = cylinders of 16065 * 512 bytes

   Device Boot      Start         End      Blocks    Id System
/dev/sda1 *           1           487     3911796    b  Win95 FAT32
```

If you can see a /dev/sda1/ device, it is detected.

2.2 Mount

You need to mount USB Flash Disk manually, then run **df** to check if you mount it successfully.

Now, it is not mounted:

```
root:~> df
Filesystem            1k-blocks      Used Available Use% Mounted on
/dev/mtdblock0         14327        14041         286  98% /
/dev/mtdblock2        253696       128036     125660   50% /persistent
```

You can mount it to a spare directory:

```
root:~> mount -t vfat /dev/sda1 /mnt/uba
root:~> df
Filesystem            1k-blocks      Used Available Use% Mounted on
/dev/mtdblock0         14327        14041      286  98% /
/dev/mtdblock2        253696       128036     125660   50% /persistent
/dev/sda1             3901424       261544     3639880    7% /mnt/uba
```

Also you can mount it to a directory in use, however after you mount it, the original storage spaces of that directory will be shielded by your USB Flash Disk.

For example:

If you mount it to /persistent/sounds/voicemail/ which is used to store voicemail message, the new voicemails will be stored to your USB Flash Disk other than the PBX Disk, however it will be stored to PBX Disk again after you umount it.

```
root:~> umount /mnt/uba
root:~> df
Filesystem            1k-blocks      Used Available Use% Mounted on
/dev/mtdblock0         14327        14041      286  98% /
/dev/mtdblock2        253696       128036     125660   50% /persistent
root:~> mount -t vfat /dev/sda1 /persistent/sounds/voicemail
root:~> df
Filesystem            1k-blocks      Used Available Use% Mounted on
/dev/mtdblock0         14327        14041      286  98% /
/dev/mtdblock2        253696       128036     125660   50% /persistent
/dev/sda1             3901424       261544     3639880    7% /persistent/sounds/voicemail
```

2.3 Automatically Mount

The USB Flash Disk will be umounted once PBX reboot. If you want it is mounted automatically, you can write a script including the mount command in /etc/rc.d/ directory and named beginning with S.

1) Go to /persistent/etc/rc.d/ directory

```
root:~> cd /persistent/etc/rc.d/
```

```
root:/persistent/etc/rc.d>
```

2) create a file named S100usb including mount command

```
root:/persistent/etc/rc.d> echo "mount -t vfat /dev/sda1 /mnt/uba" > S100usb
```

```
root:/persistent/etc/rc.d>
```

3) give the file executable permission

```
root:/persistent/etc/rc.d> chmod +x S100usb
```

```
root:/persistent/etc/rc.d>
```

```
root:/persistent/etc/rc.d> ls
S10network  S99local    S40zaptel   S35cron     S50asterisk S30ntp
root:/persistent/etc/rc.d> echo "mount -t vfat /dev/sda1 /mnt/uba" > S100usb
root:/persistent/etc/rc.d> cat S100usb
mount -t vfat /dev/sda1 /mnt/uba
root:/persistent/etc/rc.d> chmod +x S100usb
```