



ATCOM[®]

IPPBX Firmware Upgrade User Guide

Version: 2.0

2011-08-20

Content

CONTACT ATCOM	2
<i>The Introduction of ATCOM</i>	2
<i>Contact Sales</i>	2
<i>Contact Technical Support</i>	2
1. FIRMWARE UPGRADE VIA WEB GUI	3
1.1 <i>HTTP URL</i>	3
1.2 <i>TFTP Server</i>	3
2. FIRMWARE UPGRADE VIA SERIAL CONSOLE	4
2.1 <i>Tools Preparation</i>	4
2.2 <i>Connection</i>	4
2.3 <i>Firmware Upgrade</i>	5

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	District C, east of 2nd floor, #3, Crown industry buildings, Chegongmiao Industry area, Futian district, Shenzhen, China
Tel	+ (86) 755-83018618-8888
Fax	+ (86) 755-83018319
E-mail	sales@atcomemail.com

Contact Technical Support

Tel	+ (86) 755-83018618-8110
E-mail	Support@atcomemail.com

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

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

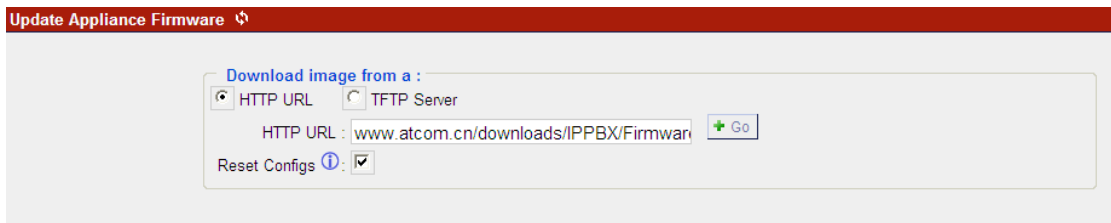
Download Center: <http://www.atcom.cn/download.html>

There are three ways to upgrade firmware of ATCOM IPPBX: via HTTP URL on Web GUI, via TFTP Server on Web GUI, via Serial Console. You can choose one of them.

1. Firmware Upgrade via Web GUI

1.1 HTTP URL

Enter **Firmware update** page on web GUI for IPPBX. If you cannot find it, go to **Options** -> **Advanced Options**, click **Show Advanced Options** button, then you will see the item in left web framework.



Choose HTTP URL, enter HTTP download server, then click **Go** button, reboot IPPBX after that.

Atcom download server: <http://www.atcom.cn/downloads/IPPBX/Firmware/IPXX.md5>

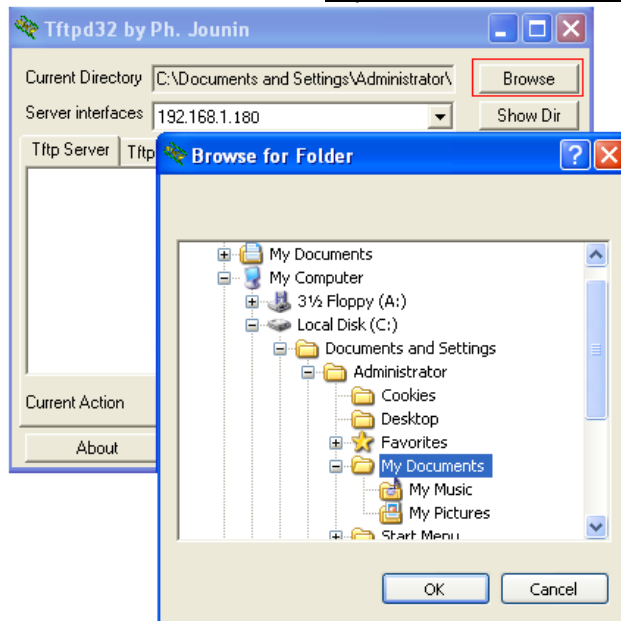
1.2 TFTP Server

Assume that 192.168.1.180 is your PC IP address, 192.168.1.181 is that of IPPBX.

- 1) TFTP setting: Choose firmware uploading directory as tftp server base directory.

Tftp Download URL: <http://www.atcom.cn/downloads/IPPBX/tftpboot.exe>

Firmware Download URL : <http://www.atcom.cn/downloads/IPPBX/Firmware/IPPBX.md5>



- 2) Enter **Firmware update** page on web GUI. Choose TFTP Server, enter TFTP Server and

File Name, then click **Go** button, reboot IPPBX after that.

Update Appliance Firmware

Download image from a :

HTTP URL TFTP Server

TFTP Server :

File Name

Reset Configs

Notice:

Select reset Configs if you wish to reset to factory defaults. This will ensure a clean update, and is highly recommended

2. Firmware Upgrade via serial console

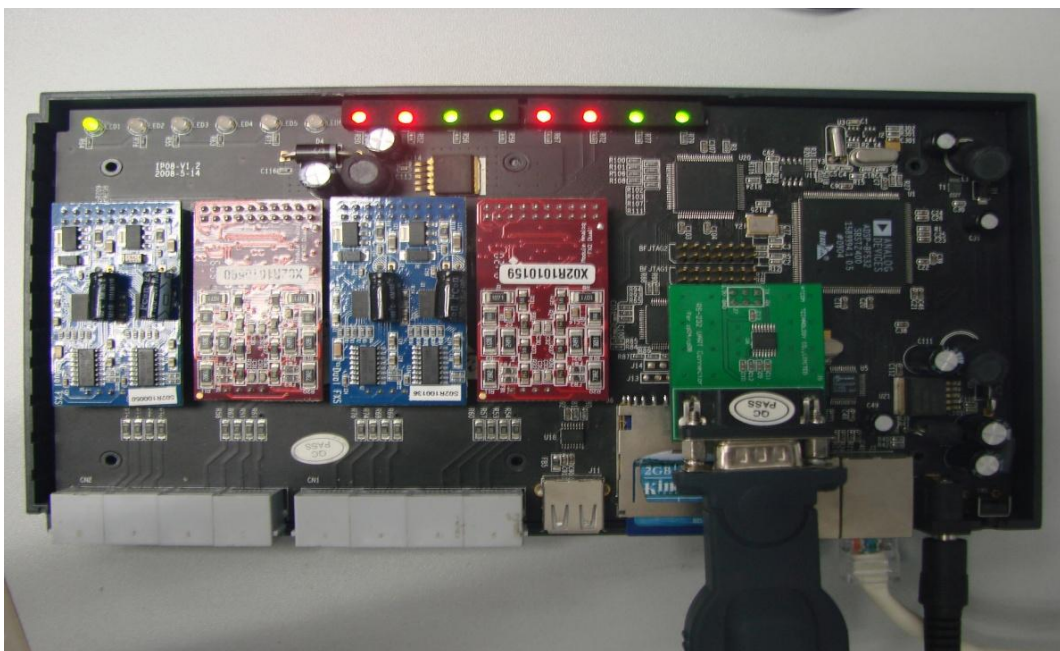
2.1 Tools Preparation

For this procedure, you'll need the following:

- (1) A console cable(direct RS232)
- (2) A serial console client (eg. PuTTY for Windows or minicom for Linux)
- (3) A TFTP server (eg. Tftpd32 for Windows)
- (4) A IPPBX firmware

Firmware Download URL:<http://www.atcom.cn/downloads/IPPBX/Firmware/IPPBX.ext2>

2.2 Connection



- 1) Remove the top cover from the IP0x and install the small RS232 daughter board which

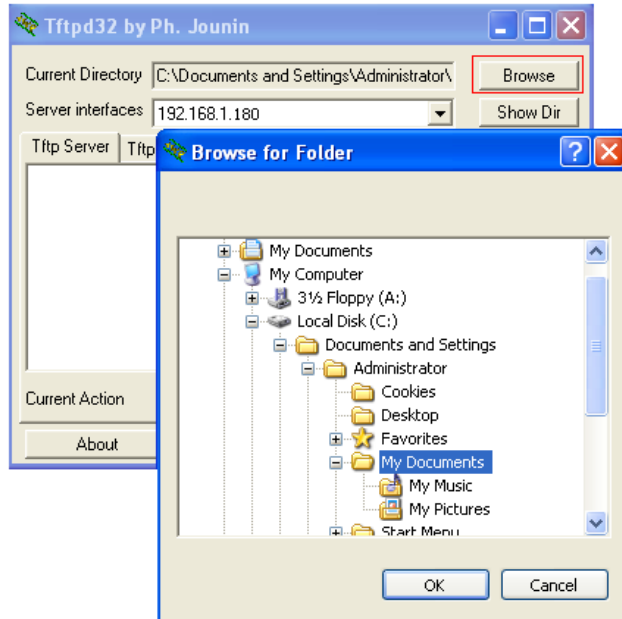
was included in the package on J8 as shown below (if there's a jumper here remove it temporarily, and be sure to place it back once done or the unit might not boot).

- 2) Connect the RS232 daughter board to your PC with cable.
- 3) Connect IPPBX WAN port to your PC with Twisted Pair.

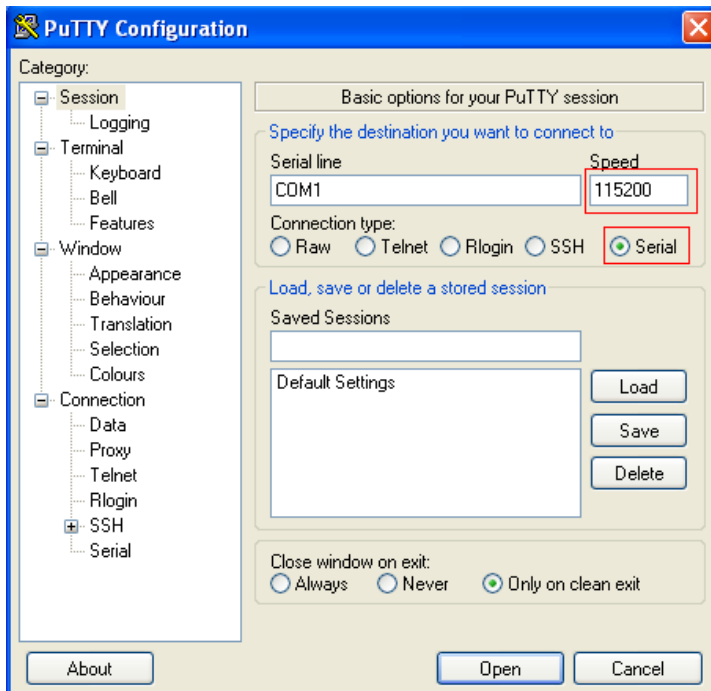
2.3 Firmware Upgrade

Assume that 192.168.1.180 is your PC IP address, 192.168.1.181 is that of IPPBX

- 1) TFTP setting: Choose firmware uploading directory as tftp server base directory.



- 2) Putty setting



If you use **Hyper Terminal** for your telnet client, Configure it to 115,200 baud, 8 data bits and no parity. Also make sure Hardware Flow Control is turned off, and that you're using the correct port (minicom might be set to use /dev/tty0 by default instead of /dev/ttyS0)

- 3) Login IPPBX with Putty (Name: root / Password: 12xerXes16)
- 4) Power on the IP0x
- 5) Press any key when you get the prompt 'Hit any key to stop autoboot'
- 6) Enter the following commands

```
ip04>setenv autostart
ip04>setenv ipaddr xxx.xxx.xxx.xxx           ;the IPPBX IP
ip04>setenv serverip xxx.xxx.xxx.xxx        ;the tftp server IP
ip04>save
ip04>tftp 0x1000000 IPPBX.ext2
```

```
ip0x> setenv autostart
ip0x> setenv ipaddr 192.168.1.181
ip0x> setenv serverip 192.168.1.180
ip0x> save
Saving Environment to SPI Flash...
Erasing SPI flash...Erase: 20 03 00 00
Erase: 20 03 10 00
Erase: 20 03 20 00
Erase: 20 03 30 00
Erase: 20 03 40 00
Erase: 20 03 50 00
Erase: 20 03 60 00
Erase: 20 03 70 00
Erase: 20 03 80 00
Erase: 20 03 90 00
Erase: 20 03 a0 00
Erase: 20 03 b0 00
Erase: 20 03 c0 00
Erase: 20 03 d0 00
Erase: 20 03 e0 00
Erase: 20 03 f0 00
Writing to SPI flash...done
ip0x> tftp 0x1000000 IP02-1.0.0.540.110819_release.ext2
dm9000 i/o: 0x20100000, id: 0x90000a46
DM9000: running in 16 bit mode
MAC: 00:09:45:5a:16:56
operating at 100M full duplex mode
Using dm9000 device
TFTP from server 192.168.1.180; our IP address is 192.168.1.181
Filename 'IP02-1.0.0.540.110819_release.ext2'.
Load address: 0x1000000
Loading: T #####
#####
#####
#####
#####
#####
#####
#####
#####
#####
#####
done
```

```
ip04>nand erase
```

```
Erasing at 0xffe0000 -- 100% complete.  
OK
```

```
ip04>nand write.e 0x1000000 0x0 0x700000
```

```
ip04>nand write 0x1000000 0x0 0x700000
```

```
NAND write: device 0 offset 0, size 7340032 ... 7340032 bytes written: OK
```

```
ip04>setenv autostart yes
```

```
ip04>save
```

```
ip04>reset
```