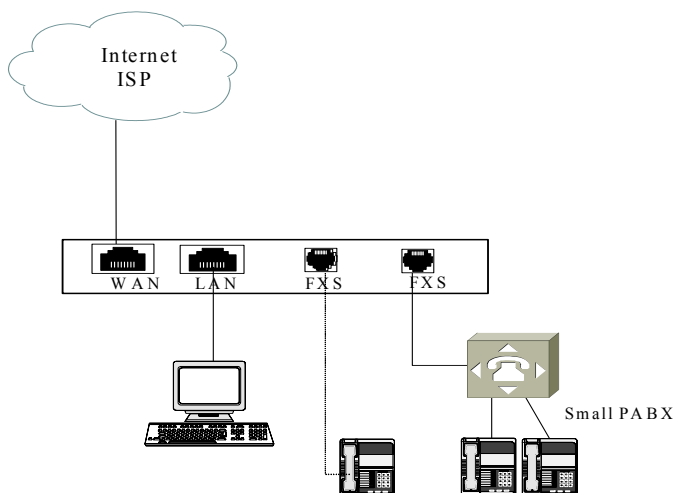# ITA3000 Quick Install Guide

1. Brief introduction

ITA3000 Router/ Terminal Adaptor combines the functions of Internet routing and security with the power of Voice over IP, telephony. Using the ITA3000 instead of a traditional router, you can connect a telephone and reduce your long distance calling costs. The ITA3000 connects to your broadband internet access (LAN, DSL or Cable Modem) and connects both your computer and telephone. It performs all of the tasks to encode your voice during telephone conversations, protects your computer from intrusion and routes /prioritizes internet data packets. The ITA3000 allows you to leaver your investment in High Speed Internet to provide you with high quality, highly featured telephone services at low costs.

2. Application diagram

3. Installation steps

1) Place your ITA3000 Router close to your Internet connection (High Speed Modem or Ethernet Hub) and a power outlet.

2) Plug the RJ-45 connector of the Ethernet 10/100Base-T cable into the ITA3000's LAN port, and plug the other end into a hub or computer. Plug the RJ-45 connector of the Ethernet cable to the ITA3000's WAN port , and plug the other end into your Cable modem or other internet access point.

3) Plug one end of an RJ-11 of phone cord to the PHONE Port (FXS) of the ITA3000, plug the other end into your telephone or a PABX port. (repeat for the second line).

4) Plug the accessory power-adapter into a power outlet, then connect the output-plug to the power-port of the ITA3000 Router.

5) The ITA3000 Router will now boot up.

NOTE:

You may need to select different RJ-45 cables depending on what you are connecting the ITA3000 Router to. In most cases you should use a "Straight Through" cable, there may be some setups where you will need a "Cross Over" cable.

Please refer to user manual for more information.

4. Ready to use

When the boot process is complete, connect your PC to LAN port of ITA3000. Make sure the IP of your PC is in DHCP mode, open an Internet browser on the PC, then type the default IP address **http://192.168.20.1** into the address bar and press Enter to enter the login page. Here you should enter account and password, then click Authenticate to enter the ITA 3000 settings page. Default account and password are user and voip respectively. Please note differentiating uppercase and lowercase.Once logged in you can make changes (if necessary) to the network or SIP settings.

Network settings:

First, click **WAN** at the top of the screen, then click **WAN settings** on the left to enter WAN configuration page. You can then select **Router** or **Bridge** from Device Operating Mode dropdown menu depending to your network configuration.

Second, if your network uses DHCP then select 'Obtain WAN configuration dynamically' on the WAN configuration page.However, if your network offer DHCP IP and DHCP is default status, so you could skip this step. If your network uses static address then select 'Specify fixed WAN configuration'.Enter the network IP settings. If your network uses PPPoE then click **WAN** on the top, then click **PPPoE** on the left to enter the WAN PPPoE configuration page. Select **Yes** from the Enable PPPoE dropdown menu and enter user name and password.

SIP settings:

First, click **SIP** at the top of the page and enter SIP configuration page. Fill in address and port of primary server as supplied by your Service Provider. **Second**, set the phone status, you can set User1 or User2 on the left of the SIP configuration page, please confirm you connect phone line to which FXS port. Enter the IP phone number, callerID name, user name and password on primary server. **Third**, click **OOB Signalling** on the left of the page then select **In-Band & OOB** from **Send DTMF Events** dropdown menu.

After setting is complete, you should save settings.

Finally, click on **Reset** at the top of the page and select 'Reset and execute main

application' all changes will now be in effect.

Note:

1. You can also set the ITA 3000 IP address, DHCP status, gateway IP, Subnet Mask IP and query IP by the telephone connected to the FXS port. Pick up the handset, press * four times continuously and do as the voice prompt.

2. If you go on pressing the Reset button on ITA 3000 when plug in the power, after the boot process is complete, the IP address and subnet mask IP are changed to 192.168.20.1 and 255.255.255.0 respectively.

Please refer to ITA 3000 user manual for detailed information

Now, you can make and receive calls.

The Electronic Specifications

● Power input: External Power Supply DC 12V, 500mA

● Network interface: IEEE 802.3 10/100 Base-T

● FCC Part15 CLASS B

● CE

Operating/Storage Environment

● Operational temperature: 0 degrees C to 55 degrees C (32 degrees F to 131 degrees F)

● Storage temperature: (-10) - 55 degrees C

● Humidity: 5% - 95% non-condensing

Dimensions

● 178 × 123 × 34mm (L × W × H)

Features

● Basic Port—— One 10Base-T Ethernet port (WAN), One 10/100 BASE-TX Fast Ethernet port (LAN), Two loop-start FXS RJ-11 ports

● Router Integrated

● NAT with VPN Pass-through (Network Address Transition)

● Rich Call features: Call Transfer, Call waiting, Call hold, FAX, 3-way Calling, Caller number display and Do not disturb.

● QoS Support

● Voice service is prioritized over the data traffic

● Packet filter by IP address, port number and protocol

● Web-based Management- Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java - enabled browsers.

- SNMP management agent based on MIB II
- Password Authentication Protocol/Challenge Handshake Authentication Protocol (PAP/CHAP)
- Administration password through Web and SNMP
- TFTP: The built-in Trivial File Transfer Protocol provides
- firmware upgrade

Standards and Agreements

- IEEE 802.3
- IEEE 802.3u
- TCP/IP, UDP, ARP, ICMP, TFTP, Telnet, SNMP, HTTP, RIP1/RIP2
- DHCP: Dynamic Host Configuration Protocol, server and client
- NAT: Network Address Translation
- PPPoE
- SIP (RFC2543)
- G.711 (A-law and U-law), G.723, G.729a
- Type: Loop-Start FXS interfaces
- DTMF tone detection/generation
- V.21/V.25 Modem/FAX tone detection
- Echo Cancellation: G.165/G.168
- WAN: 10Base-T Ethernet Port (MDI-II)
- LAN: 10/100Base-TX Fast Ethernet Ports (MDI-X)
- IEEE 802.3 10/BASE-T Ethernet compliance
- IEEE 802.3u 100Base-TX Fast Ethernet compliance

Recommend Usage Net Condition

- Delay: Less than 400ms
- Jitter: Less than 100ms
- Package Lost Rate: Less than 10%
- Bandwidth: Minimums 28.8Kbps

Safety Warning: Please do not place this product near fire or high temperature. Avoid heavy impact, and do not leave the product in rainy or highly humid environments!