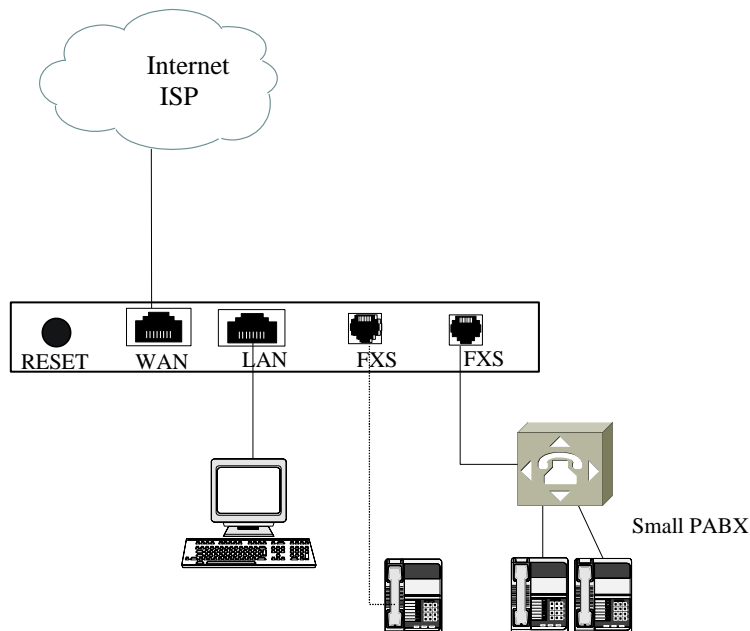


KTA3000 Quick Install Guide

1. Brief introduction

The KTA3000 Router combines the functionality of Internet routing with the power of Voice over IP telephone services. By using the KTA3000 instead of a traditional router you can connect a telephone to your internet connection and significantly reduce your long distance calling costs. The KTA3000 connects to your broadband internet access (LAN, DSL or Cable Modem) and allows you to connect both your PC and phone. It performs the tasks to encode your voice during telephone conversations, protects your computer from intrusion and routes/prioritizes internet data. The KTA3000 leverages your investment in High Speed Internet to provide you with a high quality phone service.

2. Application diagram



Important:

The KTA3000 is intended to be used as your secondary or only router. It is not intended to network a large number of network devices. Please do not connect more than 4 PCs through the LAN port of the device.

3. Installation steps

- 1) Position your KTA3000 Router close to your Internet connection (High Speed Modem or Ethernet Hub) and a power outlet.
- 2) Plug the RJ-45 (network) cable supplied into the KTA3000's LAN port, and plug the other end of the cable into your PC (or hub).
- 3) Now use a 2nd RJ-45 cable (supplied with your modem). Plug one end of the cable into your ADSL/Cable modem (or other internet point) and connect the other end into the KTA3000's WAN port.
- 4) Plug one end of the RJ-11 telephone cord supplied into one of the PHONE Ports (FXS) of the

KTA3000 and plug the other end into your telephone (or a PABX). (Repeat this step for the second line).

- 5) Plug the power-adaptor into a power outlet and then connect it to the KTA3000.
- 6) The KTA3000 Router will now boot up.

NOTE: You may need to purchase a different kind of RJ-45 cable depending on what you are connecting the KTA3000 Router to. In most cases you will use a "Straight Through" cable. However there may be some instances where you will need a "Cross Over" cable.

Confirm that the Unit is Ready for use

When the boot process is complete your KTA3000 should be ready for use. Please pick up the telephone connected to the KTA3000 and confirm that you have a dial tone. You should now be able to make calls.

If you pick up the telephone but hear a busy tone rather than a regular dial tone then:

- i) Power OFF both your Modem and the KTA3000
- ii) Power ON your Modem and wait until it completely restarts.
- iii) Power on the KTA3000 and wait 1 minute until it restarts.

Confirm if you now have a dial tone on your phone. If you do not then you will need to perform additional configuration or seek technical assistance.

IMPORTANT NOTE: ADDITIONAL CONFIGURATION OF THE KTA3000 SHOULD BE UNDERTAKEN BY A TECHNICAL EXPERT. PLEASE DO NOT ATTEMPT TO CHANGE ANY CONFIGURATION SETTING UNLESS YOU ARE FAMILIAR WITH CONFIGURING NETWORK SETTINGS.

4. Additional Configuration

There are two methods of programming the KTA3000

Programming Method 1: Pick up the phone handset and press * four times (***)

You will hear the voice prompt. Now key in 100* and the IP address will be spoken to you. Write down the IP address. On a PC connected to the same network as the KTA3000, open an Internet browser on the PC, then type the IP address into the address bar and press "Enter". This will take you to the login page.

Default account: user

Password : voip

If you can not access the page, press 110* then 1* to enable DHCP. Disconnect power from the KTA3000 for 30 seconds and reconnect. Then press 100 * to listen the IP.

Programming Method 2:

- 1) Connect the LAN port of KTA3000 to the PC, change the network settings of your PC to IP: 192.168.20.100, Subnet mask: 255.255.255.0, gateway IP: 192.168.20.1. Then type the default IP address **http://192.168.20.1** into the address bar and press Enter to enter the login page.
- 2) If LAN configuration has been modified, press the Reset button on KTA 3000 when it is connected to the power after the boot process is complete, the IP address and subnet mask IPs are changed to 192.168.20.1 and 255.255.255.0 respectively. Then follow step 1).

Once logged in you can make changes (if necessary) to the settings.

Network settings:

First, click **WAN>>WAN settings**. 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. 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>>PPPoE**. Select **Yes** from the Enable PPPoE dropdown menu and enter user name and password.

Note: The KTA3000 is intended as a personal or small router, do not connect more than 4 IP devices to the KTA3000.

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 the appropriate FXS port. Enter the IP phone number, callerID name, user name and password for primary server. **Third**, click **OOB Signalling** on the left of the page then select **Out-of-bound(RFC2833)** from **Send DTMF Events** dropdown menu.

Impedance settings

Click **System** on the top, and then select appropriate impedance from the dropdown menu for your phone. Following are impedance value corresponding to the options of dropdown menu, please check the standards of your phone and then select one, if it not match, you can try others:

SI3210IMPESYTH 6000HM = 600Ω [U.S.A., China]

SI3210IMPESYTH 9000HM = 900Ω

SI3210IMPESYTH 6000HM_2UF = 600Ω+2.16μF

SI3210IMPESYTH 9000HM_2UF = 900Ω+2.16μF

SI3210IMPESYTH CTR21 = 270Ω+720Ω//150μF

SI3210IMPESYTH_AU_NZ1 = 220Ω+820Ω//120μF [Australia, New Zealand]

SI3210IMPESYTH_SK_SL_SA = 220Ω+820Ω//115μF [South Africa]

SI3210IMPESYTH_NZ2 = 370Ω+620Ω//310μF [New Zealand]

Note: After you changed settings, please reset this device. If the one you selected don't match you phone, you may lose the number you input or can not hear any thing.

Save Settings

Click on **Reset** at the top of the page and select 'Reset and execute main application' all changes will now be in effect.

5. Programming from a telephone handset

You may configure several aspects of your KTA simply by using the telephone connected to the Phone (FXS) port. Pick up handset and press * key four times, you will hear the voice prompt, then you should enter the configuration commands as follows:

Query IP address	100*	
DHCP settings	110*	
Enable DHCP	1*	
Disable DHCP	2*	
Set IP address	120#	X*X*X*X# (X=0~255)
Set gateway IP	130#	X*X*X*X# (X=0~255)
Set subnet mask IP	140#	X*X*X*X# (X=0~255)

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 Environments

- 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—— Two 10/100 BASE-TX Ethernet ports, Two loop-start FXS RJ-11 ports
- Router Integrated
- NAT with VPN Pass-through (network Address Transition)
- Call features: Call Transfer, Call waiting, Call hold, FAX, 3-way Calling, Caller number display and Do not disturb.
- Fax Support.
- QoS Support
- SNMP management agent based on MIB II
- Voice service is prioritized over 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.
- Password Authentication Protocol/Challenge Handshake Authentication Protocol (PAP/CHAP)
- Administration password through Web

- 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, HTTP
- 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
- T.38 FAX
- Echo Cancellation: G.165/G.168
- WAN: 10/100Base-TX Ethernet Port
- LAN: 10/100Base-TX Ethernet Ports

Recommend Network Conditions

- Delay: Less than 400ms
- Jitter: Less than 100ms
- Packet Loss: Less than 10%
- Bandwidth: Minimums 56Kbps

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