Combox™ User Manual
(Preliminary Release)

Combox™

Multi- services over Internet Protocol

MIP Telecom

MIP Telecom Standalone VoIP Gateway Model Combox™ H.323 / SIP Dual Mode

Quick Start Guide

MIP Telecom Combox™

Record of Revisions
Revision Description
A Initial Release.
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Introduction

Welcome to MIP Telecom's stand-alone VoIP Gateway, the Combox™.
The Combox™ allows analog voice and fax communication over an IP network.
MIP Telecom's voice/fax gateway technology allows voice/fax communication
to be transmitted, with no additional expense, over your existing IP network,
which has traditionally been data-only. To access this free voice and fax
communication, all you have to do is connect the Combox™ to your telephone
equipment, and then to your existing Internet connection. Once configured, the
Combox™ then allows voice and fax to travel down the same path as your
traditional data communications.
The Combox™ supports the H.323 and SIP standards-based protocol enabling
your Combox™ to communicate with other third-party VOIP Gateways or other
endpoints that support the H.323/SIP protocols, such as Microsoft MSN
Messenger.

< Figure 1. Combox™ >

Introduction

The Combox™ has one PSTN, one Phone Line, a 10 Mbps Ethernet LAN interface, and an WAN port.

Related Documentation

The Combox™ Quick Start Guide is intended to be used by General users.

This Quick Start Guide provides the necessary information for an end user to unpack, cable, load, and configure the unit for proper operation.

The detailed MIP Telecom Combox™ User Guide which provides in-depth information on the features and functionality of MIP Telecom's Combox™. is available from MIP Telecom's Web site:

http://www.miptel.com

Viewing and printing a user guide from the Web also requires that you have the Acrobat Reader loaded on your system. To select the Combox™ User Guide from the MIP Telecom home page.

VOIP Quick Start Guide

Installing Your Combox™

The basic steps of installing your Combox™ network involve unpacking the units, connecting the cables, and configuring the units thru web browser. This process results in a fully functional Voice Over IP network. A brief description is provided below with detailed instructions provided later.

Installing and Configuring Your Combox™

The user must first configure each Combox™ for its specific function.

During the configuration process, it's important to note that the Phone Directory is configured differently depending on whether or not you have Gatekeeper support on your VOIP network. If your VOIP network supports a H.323 Gatekeeper, you must register all H.323 endpoints with the Gatekeeper. If your VoIP network supports a SIP server, you must register all SIP UAs with the SIP server.
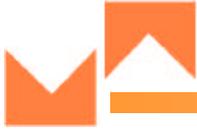
Unpacking Your Combox™

Remove all items from the box. (See Figure 2.)


< Figure 2. Unpacking >

Cabling

Cabling Your Combox™

Cabling your Combox™ involves making the proper Power,
WAN Port, LAN connection, PSTN and Phone. Figure 2.2 shows the back panel
connectors and the associated cable connections.
The Cabling Procedure section provides step-by-step instructions for cabling
your Combox™.

Cabling Procedure

1. Using the supplied cable, connect the power supply to a live AC outlet, then
   plug the power supply into the Combox™ as shown in Figure 2.2.

<Figure 2.2. Cable Connections>
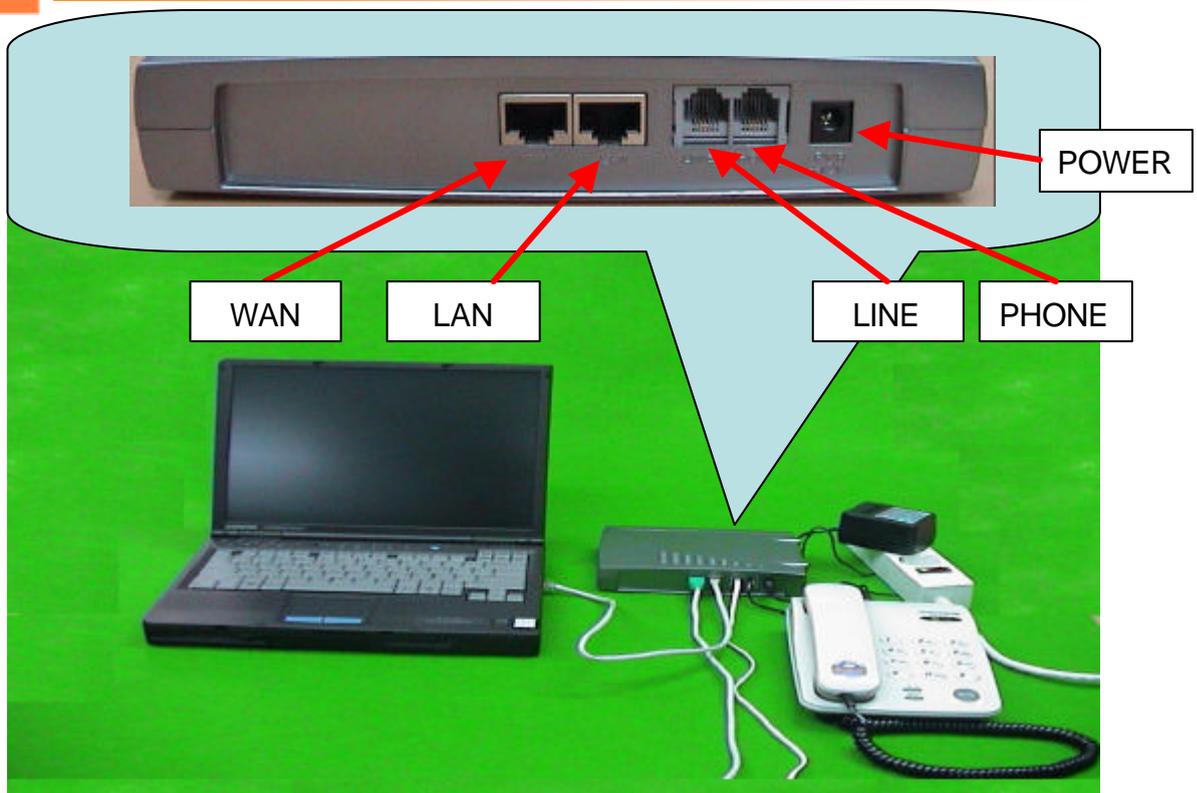
2. Connect the Combox™ to a PC using the RJ-45 cable provided with your unit. Plug the RJ-45 end of the cable into the **LAN** port of the Combox™ and connect the other end to the PC's LAN port (Figure 2.2).

3. Connect a network cable to the WAN connector on the back of the Combox™. Connect the other end of the cable to your network.

4. Connect a RJ-11 cable to the Line and the other end to the PSTN. If you are connecting a station device such as an analog telephone, fax machine, or Key Telephone System (KTS) to your Combox™, connect an RJ-11cable to the **Phone** connector on the back of the Combox™ and the other end to the station device.

5. Turn on power to the Combox™ by plugging-in the adaptor. Wait for the Boot LED on the Combox™ to go off before proceeding. This may take a couple of minutes.

Configuring Your Combox™
Windows XP

1. Choose Start, Control Panel. (Figure 3.3.1)
2. Choose Network and Internet Connections (Figure 3.3.2)
3. Choose Network Connections (Figure 3.3.3)
4. Click Local Area Connection (Figure 3.3.4)
5. Click property
     Select Internet protocol (TCP/IP) under General Tap. (Figure 3.3.5)
6.   Click Property
     Select "Use the following IP Address" . Then type in below. (Figure 3.3.6)
     IP Address: 192.168.1.2
     Subnet Mask: 255.255.255.0
     Default Gateway: 192.168.1.1
7. Click OK (Figure 3.3.7)
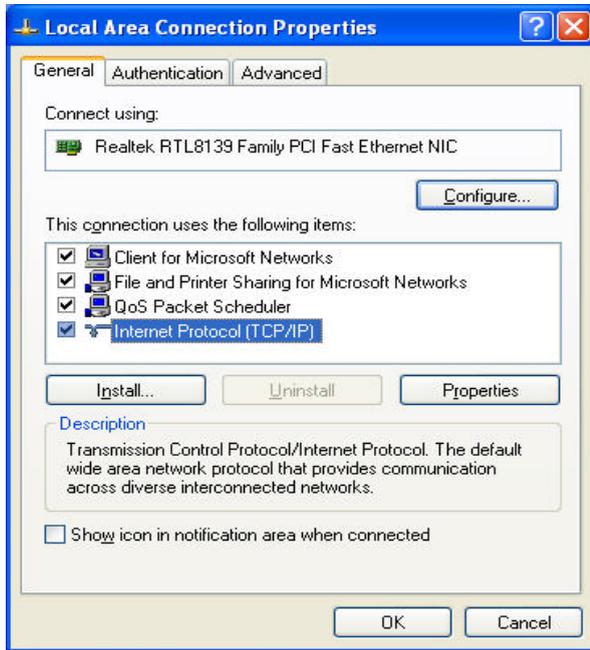   Go to Combox™ Configuration
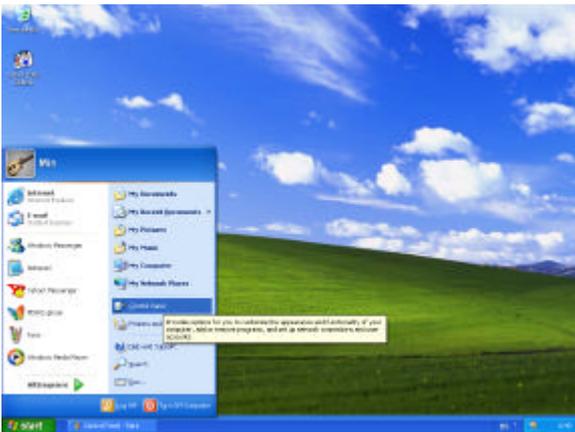
< Figure 3.3.1>
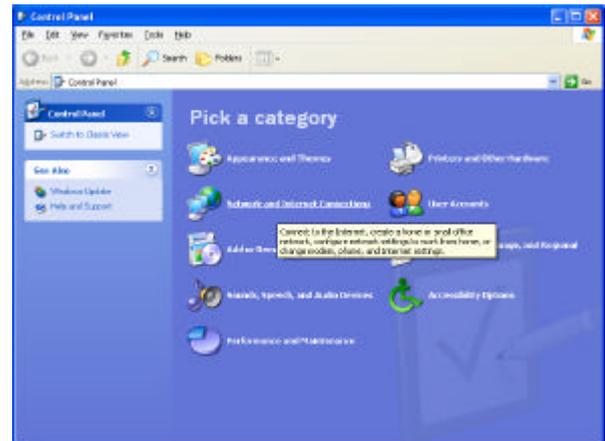
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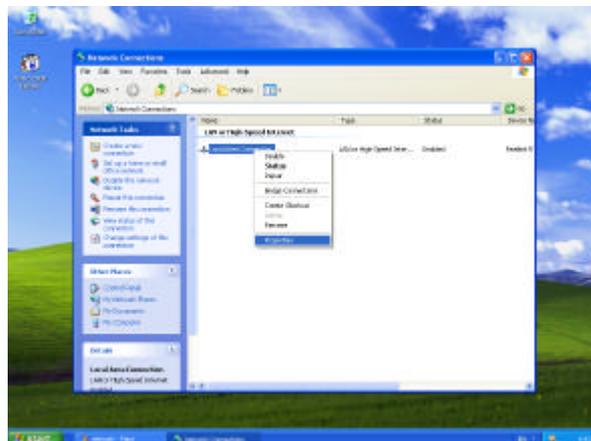
< Figure 3.3.3>

MIP Telecom

< Figure 3.3.4 >
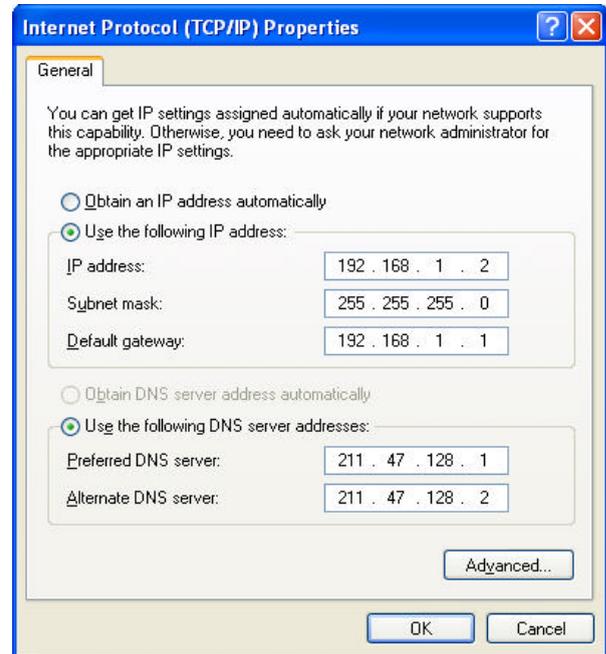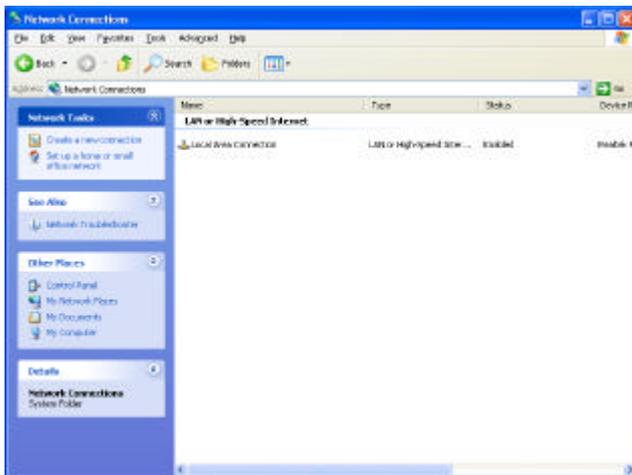

< Figure 3.3.5 >

< Figure 3.3.6 >
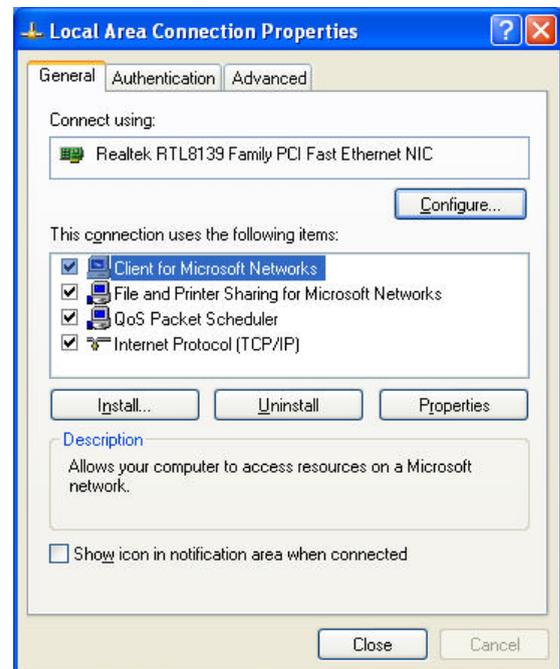
< Figure 3.3.7 >

Combox™ Configuration

You can configure your MIP Telecom Combox™ by using the web configuration page.

Follow these steps:

Step 1   Make sure that the PC and the MIP Telecom Combox™ are already networked and visible to one another.

Step 2   Open your web browser.

Step 3   Enter the URL of your configuration page.
For example, the configuration page for a MIP Telecom Combox™ with the IP address 192.168.1.1 is:

<div align="center">

http://192.168.1.1

</div>

Step 4   Select the values for the items that you want to configure.
1. Key in ID:lsgw and Password:lsgw11111 (Figure 4.1)
2. Click Enter Configuration on Configuration Wizard (Figure 4.2)
3. Provide required info based on your Internet Connection on Configuration Wizard 1/5. Click Next (Figure 4.3)
4. Provide required info on Configuration Wizard 2/5. Click Next (Figure 4.4)
5. Enter "ISN Number" and Protocol specification provided by your ITSP on Configuration Wizard 3/5. If you make an Point-to-point call without an ITSP, Select No on H.323/SIP Configuration. (Figure 4.5)
6. Numbering rule is available if you don't want to go thru gatekeeper and SIP server. Click next (Figure 4.6)
7. NAT Setup function is an option. Please contact application service providers to get more info. Otherwise, click next. (Figure 4.7)
8. Click "Save & Restart" on Configuration Wizard 5/5. Click Next(Figure 4.8)
9. Reboot. (Figure 4.9)

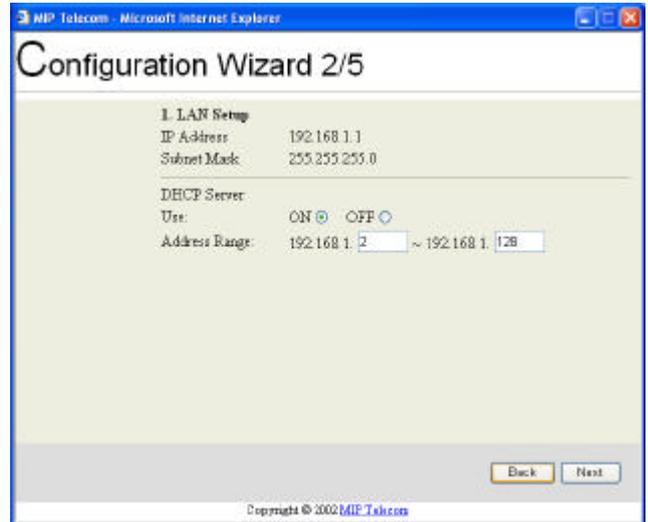**Step 5**   Click **Reboot** to save your changes.

<Figure 4.1>

<Figure 4.2>

<Figure 4.3>

<Figure 4.4>

<Figure 4.5>

<Figure 4.6>
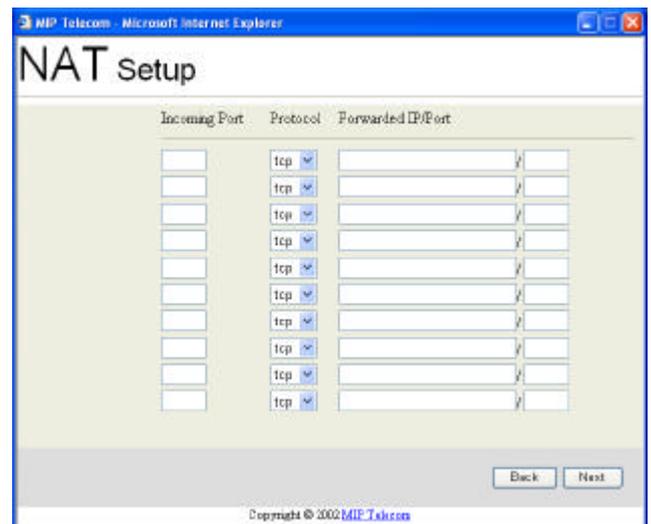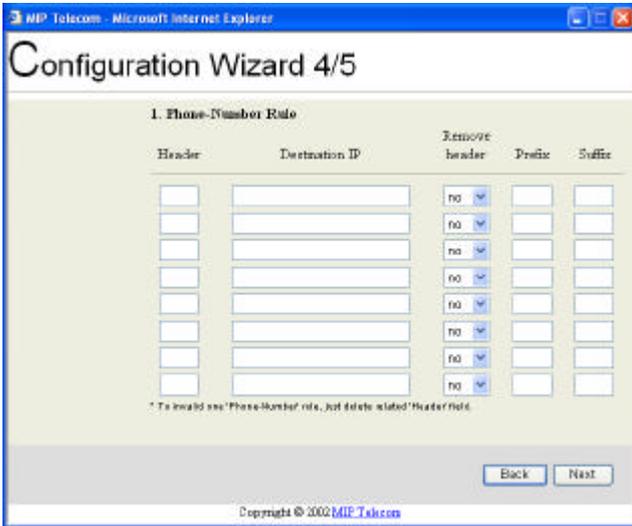
<Figure 4.7>

<Figure 4.8>

<Figure 4.9>

Making a Call

Note : The dial plan described in these instructions is the default plan. You can configure your MIP Telecom Combox™ to use a different plan.

Follow these steps to make a call:

Step 1   Lift the telephone handset.

Step 2   Dial as you normally do.

Tips If you want to send the dial string out immediately, without waiting for the 2- to 4-second timeout, press # after the last digit.

If the called party is available, you will hear ringing.
Step 3   When the called party answers, speak normally.

Step 4   Hang up when finished.
You can cancel or discontinue your call at any time by hanging up the handset.

Limited Warranty

MIP Telecom, Inc. ("MIP") warrants that its products will be free from defects in material or workmanship for a period of one years from the date of purchase, or if proof of purchase is not provided, one years from date of shipment.

MIP MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

This warranty does not apply to any products which have been damaged by light ning storms, water, or power surges or which have been neglected, altered, abused, used for a purpose other than the one for which they were manufactured, repaired by the customer or any party without MIP's written authorization, or use d in any manner inconsistent with MIP's instructions.

MIP's entire obligation under this warranty shall be limited (at MIP's option) to repair or replacement of any products which prove to be defective within the war ranty period, or, at MIP's option, issuance of a refund of the purchase price. Defective products must be returned by Customer to MIP's factory transportation prepaid.

MIP WILL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES AND UNDER NO CIRCUMSTANCES WILL ITS LIABILITY EXCEED THE PURCHASE PRICE FOR DEFECTIVE PRODUCTS.

Technical Support

MIP Telecom, Inc, Systems has an excellent staff of technical support personnel available to help you get the most out of your MIP product. If you ha ve any questions about the operation of this unit, or experience difficulty during installation you can contact Tech Support via the following:

Phone:
 (82)2-557-3399
Internet: **http://www.miptel.com**
Please have your product information available, including model and serial number.

FCC Declaration

NOTE: This equipment has been tested and found to comply with the limits for a **Class A** digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.