

ComboxTM User Manual (Preliminary Release)



Multi-services over Internet Protocol

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

Quick Start Guide

MIP Telecom ComboxTM

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ComboxTM Quick Start Guide

Introduction

Welcome to MIP Telecom's stand-alone VoIP Gateway, the ComboxTM. The ComboxTM 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 ComboxTM to your telephone equipment, and then to your existing Internet connection. Once configured, the ComboxTM then allows voice and fax to travel down the same path as your traditional data communications.

The ComboxTM supports the H.323 and SIP standards-based protocol enabling your ComboxTM to communicate with other third-party VOIP Gateways or other endpoints that support the H.323/SIP protocols, such as Microsoft MSN Messenger.



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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 ComboxTM User Guide which provides in-depth information on the features and functionality of MIP Telecom's ComboxTM. 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 ComboxTM User Guide from the MIP Telecom home page.

VOIP Quick Start Guide

Installing Your ComboxTM

The basic steps of installing your ComboxTM 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 ComboxTM

The user must first configure each ComboxTM 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 ComboxTM

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



< Figure 2. Unpacking >

Cabling

Cabling Your ComboxTM

Cabling your ComboxTM 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 ComboxTM.

Cabling Procedure

1. Using the supplied cable, connect the power supply to a live AC outlet, then plug the power supply into the ComboxTM 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 ComboxTM. 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 ComboxTM, connect an RJ-11cable to the **Phone** connector on the back of the ComboxTM and the other end to the station device.
- 5. Turn on power to the ComboxTM by plugging-in the adaptor. Wait for the Boot LED on the ComboxTM to go off before proceeding. This may take a couple of minutes.





- 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
- Click OK (Figure 3.3.7) Go to Combox[™] Configuration





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< Figure 3.3.3>



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< Figure 3.3.4>

You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network supports ed to ask your network administrator for				
<u>○ O</u> btain an IP address autom	atically				
Ose the following IP addres:	s:				
IP address:	192.168.1.2				
S <u>u</u> bnet mask:	255 . 255 . 255 . 0				
<u>D</u> efault gateway:	192.168.1.1				
Obtain DNS server address	automatically				
O Use the following DNS serv	er addresses:				
Preferred DNS server:	211 . 47 . 128 . 1				
Alternate DNS server:	211 . 47 . 128 . 2				
	Advanced				

< Figure 3.3.5>

uchora	Authenticati	on A	dvanc	əd			
Connec	: using:						
₩ ₽ F	ealtek RTL8	139 Fa	amily P(CI Fast E	thernet	NIC	
This co	nection uses	the f	ollowing	ı items:	(<u>C</u> onfigu	re
	File and Prin QoS Packet Internet Pro	nter Sh t Sche tocol (naring fo eduler TCP/IF	or Micros	oft Net	works	
Descr Allow netw	istall ption s your compu ork.	uter to	<u>U</u> nin access	stall : resourc	es on a	P <u>r</u> opertie Microsoft	es
C Sho	<u>v</u> icon in notif	icatio	n area v	when cor	nnecte	d	

< Figure 3.3.7>



< Figure 3.3.6>

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ComboxTM Configuration

You can configure your MIP Telecom $Combox^{TM}$ by using the web configuration page.

Follow these steps:

- **Step 1** Make sure that the PC and the MIP Telecom $Combox^{TM}$ 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:

http://192.168.1.1





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.

Connect to 19	2.168.1.1	MUD Televen- Mercrael Explorer De Gill gen Pportes Sole (se)	
	R. P.	all and the contract of the co	9 🖸 co 🗤 *
1.5		Welcome to Combox Setup!!!	
а н		Combox is the brand name of MIP Telecom	
<u>U</u> ser name:	🖸 Isgw 🕑	Enter Configuration Witard2.2	
Password:	••••••	Eith Confluention (1975) - Warring : Do NOT assoct frie menu if you aren't experted to additive new configuration Re.	
	Remember my password	Sections (Contact) 22 • Warning: Do NOT select this nemu. If you aren't is period to upgrade Yo P software, See NP Telecom Contact Software Upgrade Cade.	
	OK Cancel		









MIP Telecom - Microsoft Internet Explorer						MIP Telecom - Microsoft Internet Explore	er.	
Configuration Wizard 1	/5					Configuration Wiz	ard 2/5	
1. IP Address Seem	-		15	16		L LAN Setup IP Address	192.168.1.1	
 Static IP Address 	192	168	0	2		Subtret Mask	232332330	
Subart Mask	295	255	255	0		DHCP Server		
Detast Gateway	192	168	1	1		Use:	ON OFF O	
DNS Server	61	250	222	66		Address Range:	192.168.1 2 ~ 192.168.1 128	
O PPPoE User ID	ream.							
User Password	light	t th						
2. MAC Address Setup								
MAC Address	00	06 1	14 00	00 91	101 - E			
				Bacit Ne	nt		Back	Next
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<Figure 4.3>

<Figure 4.4>

1. VoIP-Specific Con	diguration
ISN Number	201
Pretocol	OH 313 0 SD
H 323 Configuration	
Use Gatekseper:	OYES ONO
Gatekeeper IP(Post	0 0 0 0 1718
H323 ID:	12546
SIP Configuration	
Use Server	OYES ⊙NO
Proxy IP/Port	81 251 222 4 3660
Registrar IP/Port	6t 350 222 4 5060
SIP URL	mistel.com

Incoming Port	Protocol Forw	varded IP/Port
	tep 👻	
	tep 🐱	2
	top 😁	y.
	tcp 👻	X
	top 👱	/
	tcp 💌	И
	tcp 🛩	X
	top 😁	/
	tcp 💌	/
	top 🖌)

<Figure 4.6>

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<Figure 4.5>

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Hender Destination ID header Prefix Suffix Hender Destination ID header Prefix Suffix Header D	1. Phone-Num	sber Rule	Tanone			To save your configuration & restart your rombox, press Save & Rest Justice Please by uniferst This process will take about 20 sec
row Image: Second s	Hender	Destination \mathbb{P}	header	Prefix	Suffic	Enve & Restart
If you want to restore factory configuration, press Hard Reset button.			no 🛩			
Hend Result			na 💌			If you want to restore factory configuration, press Hard Reset' button.
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Back Next Back 700		Copyright @ 2002 MIP Telecon				Conversite @ 2002 MIP 7 elecon



<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 ComboxTM 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 HEREBYDISCLAIMED.

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.

