

Powered by Accton

VP3302B/ VP3302B-PoE SIP Phone

www.edge-core.com

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1. Introductions

The VP3302B is an IP Telephone with SIP Protocols for Voice over IP (VoIP) applications. With an internet connection the VP3302B can make VoIP calls. The VP3302B provides one WAN port for Internet ADSL connections, and one LAN port for Notebook PC. With an embedded NAT/DHCP server, VP3302B can be easily configured for different network diagrams by IE Web browser and telephone keypads. VP3302B-PoE is the same as VP3302B with additional Power over Ethernet feature. With power supply over Ethernet cable from central Ethernet Switch, VP3302B may work without external power adapter. It is very convenient for ITSP (Internet Telephony Service Providers) and SOHO users to make VoIP calls with registrations to IP PBX.

2. Features

Equipped with two RJ45 connectors VP3302B is featuring as the following

VoIP Features

SIP(RFC3261)

Multiple SIP registration

Outbound Proxy

STUN

Codec support:

- G.711 a-law u-law
- G.723.1
- G.726.1
- G.729A
- G.729B

Voice Activity Detection (VAD) Comfort Noise Generation (CND) Packet loss concealment Adaptive jitter buffer DTMF In band (RFC2833) Out band SIP info Call Features Call hold Call waiting

Call forward

- ■All forward
- ■Busy
- ■No answer

Caller ID

Do not disturb (DND)

- ■Always
- ■Time period
- Dial plan
- 3-way conference
- Voicemail

Redial

Phone entries

- Local phone book:140 entries
- Missed calls:64 entries
- Dialed calls:64 entries
- Answered calls:64 entries

Speed dial

Speaker phone

Network Features

Static IP

DHCP client/server

PPPoE

NAT

Port forwarding

Virtual sever

DDNS

VLAN

QoS Features

ToS field Diffserv IEEE802.1p

Security Features

HTTP 1.1 basic/digest authentication MD5 for SIP authentication (RFC2069/RFC2617) PPTP

<u>Management</u>

HTTP web management

Configuration through key pad

Firmware/Configuration download

- ■FTP
- ■HTTP
- TFTP

3. Standard Compliances

The VP3302B VoIP Phone supports for the following standardsVoIP Protocol:IETF RFC3261 and RFC 2543 for SIPSIP Authentication:IETF RFC2069 and RFC 2617 for MD5Speech Codec:ITU-T G.711, G.723, G.729A/B, VAD and CNGEcho Cancellation:ITU-T G.165/168

4. Packing Contents

Inside the package you should find:

- (1) VP3302B SIP Phone
- (2) 1 x Power Adaptor (9~12VDC/1A)
- (3) 1 x User Manual CD

Please check if the packing is damaged or any component is missing. If so, please contact your distributor.

5. LED Indicators

On the front panel of VP3302B, there are three LED indicators as the following

- **REG:** "Green On" indicates successful registration at SIP server.
- VMS: "Red Flashing" indicates there are voice messages for incoming VoIP call.

To hear the message you may press the Speaker Phone key then VMS function key.

6. Installations & SIP Configurations

- 1. Connect VP3302B RJ45 WAN port to NAT Router using a Category 5 LAN cable.
- 2. Connect RJ45 LAN port to Notebook PC using a Category 5 LAN cable.
- 3. Connect DC Power Adaptor. The LCD Panel will start displaying "Loading Program" for about 5 seconds, and the LEDs will be ON and start initializations.
- 4. The LCD panel will show **Date**, **Time** and **No service** without SIP registration, or **<phone number>** after successful SIP registration.
- 5. Pick up the phone, and you will hear a dial tone and the LCD panel will show **IP Dialing.. 1**. If you hear a busy tone, please check if the WAN port is connected and hang up.
- Press Menu_7_4, and test (i.e. press 8 two times_3 three times_7 five times_8 two times_enter) to enter password first. Press Menu_4_5 from keypad to read WAN and LAN IP addresses. The default LAN IP address is 192.168.123.1.
- Go to Chapter 8 and you may enter this IP address in IE Web browser for web configurations. Configure and register VP3302B into your SIP server. There are more details and examples for VoIP application of SIP registrations in Chapter 10.
- 8. If VP3302B has successfully registered in the SIP server, the LED **REG** will turn ON.
- 9. Pick up the phone, and press 123456# to call the party with the number 123456 registered in the SIP server. Note that # will dial out the number immediately. Dialing without # will not dial out until the auto dial timer (default=5 seconds) elapsed. In a moment, you should hear a ring back tone, and wait for answer.

7. Default Reset by Using Keypads

Press Menu / 7.Administrator / 3.Default setting / 1.Load default by using Menu and arrow keys to reset back to factory defaults, and the LCD panel will show Set Default... In 5 seconds, the LCD will start showing Loading Program and System Initialized. The VP3302B will reset to default and restart.

Press Menu / 7.Administrator / 7.Restart to reboot VP3302B. In 5 seconds, the LCD will start showing Loading Program and System Initialized.

8. Configurations by Web Browser

You may enter the IP address from PC Web browser to configure VP3302B. For example, enter <u>http://192.168.123.1</u> from IE web browser to display login page as follows.

- 8.1. Please enter the default IP address <u>http://192.168.123.1</u> from PC Web browser.
 - The following Web page shall be displayed on PC. If you have difficulties accessing the Web page from the PC Web browser, the subnet IP of PC might be different from **192.168.123.xxx**. In this case, please refer to Chapter 9 for trouble shooting.

Welcome to Edge-Core login VolP				
Enter yo VP33	our username and password to login 02B/VP3302B-PoE SIP IP Phone			
Username				
Password				
	Login Clear			

- 8.2. Please enter the username and password into the blank field. The default settings are:
 Username: Edge-Core
 Password: Edge-Core
- 8.3. Click the "Login" button to enter the System information page for web configurations. Whenever you change the setting in each Web page, remember to click the "Submit" button in the page, and click the "Save" button to save into the non-volatile memory and click the "Reboot" button to activate the new settings.

System Information

- 8.4. The system information shows firmware version, Codec, etc.
- 8.5. You may click the buttons, for example Phone Book, at the left hand side to configure the VP3302B.



Phone Book

Phone Book Settings

- 8.6. You may add/delete Name up to maximum 140 entries in Phone book list.
- 8.7. To add a phone name, you need to enter the position, the name, and the phone URL. When you finished a new phone list, just click the "Add Phone" button.
- 8.8. To delete a phone name, please select the phone name then click "Delete Selected" button.
- 8.9. To delete all phone names, please click "Delete All" button.
- 8.10. After dialing a phone number, the VP3302B will first match with the Name in the phone book. If matched, VP3302B will send out the corresponding URL instead. If not, the same dialed number will be sent out.
- Example 1:
 Name: 333, URL: 192.168.1.100

 Press 333# on telephone, and the phone at 192.168.1.100 will start ringing.

 Example 2:
 Name: 201, URL: 14081234567

 Press 201# on telephone, and VP3302B will call the registered number 14081234567.

 Example 3:
 Name: 301, URL: 192.168.1.100:5062
 - Press **301#** on telephone, and VP3302B will call at **192.168.1.100** with port **5062**.
- Example 4: No Name 401 in phone book. Press 401# on telephone, and VP3302B will call the registered number 401.



Phone Book

You could add/delete items in current phone book.

Phone Book Page: page 1 -

Phone	Name	URL	Select	
0				
1	234	james@voip.sipserver.com		
2	333	192.168.1.100		
3	fwd	612345		
4				
5				
6				
7				
8				
9				
Delete Selected Delete All Reset				

Add New Phone

Position:	(0~139)
Name:	
URL:	
Add Phone	Reset

Speed Dial Phone List

- 8.11. You can add/delete Speed Dial number up to maximum 10 entries in Speed Dial Phone List.
- 8.12. If you need to add a phone number into the Speed Dial list, you need to enter the position, the name, and the URL. Click the "Add Phone" button to finish the setting.
- 8.13. To delete a phone number, please select the phone number you want to delete then click "Delete Selected" button. If you want to delete all phone numbers, please click "Delete All" button.

Example 1: Press 2# from keypad to Speed Dial the phone number 2 immediately.Example 2: Press M2 function key will Speed Dial the phone number 2 immediately.



Phone Setting

Call Forward Setting

8.14. You can select the forward mode and enter the forward URL.

All Forward: All incoming call will forward to the URL you choose.

Busy Forward: The incoming call will forward to the URL when you are busy and on the phone. **No Answer Forward:** The incoming call will forward to the URL when no answer.

8.15. You need to set the Time Out ring which will initiate No-Answer forwarding to the number you choose. When you finished the setting, please click the "Submit" button.

E d g e – C o r E Powered by Accton	Forward Setting You could set the forward number of your phone in this page.			
·	All Forward:	Off ◎ On On		
Phone Book	Busy Forward:	◎ Off © On		
*	No Answer Forward:	◉ Off © On		
Phocall Forward		Name	URL	
Net Volume Settings	All Fwd No.:			
Melody Settings	Busy Fwd No.:			
SIP DND Settings Dial Plan Settings	No Answer Fwd No.:			
Call Waiting Settings				
NATSoft-key Setting	No Answer Fwd Time Out:	3 (2~8 Ring)		
Hot line Settings Oth		Submit Reset		

SNTP Settings

8.16. You can setup the primary and the second SNTP Server IP Addresses to get the date/time information. You may also set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the "Submit" button.



SNTP Settings

You could set the SNTP servers in this page.

SNTP:	◉ On Off
Primary Server:	time.windows.com
Secondary Server:	208.184.49.9
Time Zone:	GMT + ▼ 08 ▼: 00 ▼ (hh:mm)
Sync. Time:	1 : 0 : 0 (dd:hh:mm)

Reset

Submit

11

Volume Settings

8.17. You can setup the Handset Volume/Gain, Ringer Volume, and Speaker Volume/Gain in this page. Handset/Speaker Volume is to set the volume hearing from the handset/Speaker. Handset Gain is to set the volume send out from the handset. Speaker Gain is to set the volume send out from the microphone at the bottom of VP3302B.



Volume Setting

You could set the volume of your phone in this page.			
Handset Volume:	10	(0~15)	
Speaker Volume:	10	(0~15)	
Ringer Volume:	6	(0~10)	
Handset Gain:	10	(0~15)	
Speaker Gain:	9	(0~15)	
	Submi	Reset	

Melody Settings

8.18. You can select the ringer melody type for the imcoming call.





DND Settings

8.19. You can setup the DND (Do Not Disturb) to keep the phone slience. You can choose DND Always or DND period. .

DND Always: All incoming call will be blocked until the feature is disabled.

DND Period: Set a time period and the phone will be blocked during the time period. If the "From" time is large than the "To" time, the block time will from Day 1 to Day 2.

When you finished the setting, please click the Submit button.



DND Setting

You could set the do not disturb period of your phone in this page.

DND Always:	On	Off
DND Period:	On	Off
From:	00	
To:	00	.00 (hh:mm)
	Subn	mit Reset

Dial Plan Settings

- 8.20. Dial plan and auto dial timer settings can be set in this page. The dial plan allows you to map the dialing into an easy-to-remember phone number system. The auto dial timer specifies the elapse time between the dialing digits. When Drop prefix is ON and the dialing prefix is matched, the prefix will be dropped and replaced by the rule digits and followed by the rest of dialing digits. When Drop prefix is OFF and the dialing prefix is matched, the rule digits will be added before the dialing digits in accord with the settings.
- 8.21. Symbol Representations:

Symbol	Representations	
x or X	0,1,2,3,4,5,6,7,8,9	
+	or	

Example 1: Drop Prefix: No, Replace rule 1: 002, 8613+8662

a) Pressing **8613xxx** will result in dialing out **002+8613+xxx**.

b) Pressing 8662xxx will result in dialing out 002+8662+xxx.

- Example 2: Drop Prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009
 - a) Pressing **002xxx** will result in dialing out **006+xxx**.
 - b) Pressing **003xxxx** will result in dialing out **006+xxxx**.
- Example 3: Drop Prefix: No, Replace rule 3: 009, 12
 - a) Pressing **12xxx** will result in dialing out **009+12xxx**.
- **Example 4**: Drop Prefix: **No**, Replace rule 4: **007, 5xxx+35xx+21xx**
 - a) Pressing **5xxx** will result in dialing out **007+5xxx**.
 - b) Pressing **534** will result in dialing out **534** (not matched for the rest 3 digits).
 - c) Pressing 35xx will result in dialing out 007+35xx.
 - d) Pressing **356** will result in dialing out **356** (not matched for the rest 2 digits).
 - e) Pressing 35668 will result in dialing out 35668 (not matched for the rest 2 digits).

Example 5: Dial Now: ***xx+#xx+11x+xxxxxxx**

- a) Pressing ***00**, ***01**, ***02**.. ***99** will result in dialing out the same ***xx immediately**.
- b) Pressing #00, #01, #02 .. #99 will result in dialing out the same #xx immediately.
- c) Pressing 110, 111, .. 119 will result in dialing out the same 11x immediately.
- d) Pressing **12345678** (8 digits) will result in dialing out **12345678 immediately**. This implies that the phone numbers with 9 or more digits are prohibited.
- 8.22. Auto Dial Timer: The inter-digit timer. Default is 5 seconds.
- 8.23. When you finish the setting, please click the Submit button.
- 8.24. Click the Save button. The changes you have made will be saved and the VP3302B will reboot automatically.

Dial Plan

You could the set the dial plan in this page.

Drop prefix :	Yes	No
Replace rule 1:	002	+ 8613+8862
Drop prefix :	Yes	© No
Replace rule 2:	006	+ 002+003+004+005+007+009
Drop prefix :	Yes	No
Replace rule 3:	009	+ 12
Drop prefix :	Yes	No
Replace rule 4:	007	+ 5xxx+35xx+21xx

Dial now:	*xx+#xx+11x+xxxxxxxx
Auto Dial Time:	5 (3~9 sec)
Use # as send key:	● Yes 🔘 No
Use * for IP dialing:	● Yes © No

Submit Reset

Call Waiting Setting:

8.25. When call waiting is set ON, you will hear an interrupt "dodo" tone over the phone to remind that there is an incoming call from the third party.



Soft Key Setting

8.26. You can configure the pickup and VMS key setting to co-work with IP PBX in this page.

Soft-key Setting

You could configure the soft-key setting in this page.			
Pick up key:			
Voice mail key:]	
	Submit Reset		

Voice Mail

8.27. When registered in IP PBX with incoming voice message, the LED VMS will start flashing. To hear the message you may press the **Speaker Phone** key then **VMS** function key.

Hot Line Settings

- 8.28. You can enable/disable and set Hot Line phone number in this page.
- 8.29. When Hot Line mode is enabled, you just pick up the phone and the VP3302B will call the Hot line number immediately. The default for Hot Line mode is disabled.
- 8.30. Hot-Line Mode is very convenient for IP calling to Public Switching Telephone Network (PSTN) number through FXO Gateway

Hot line Setting

You could set the hot line in this page.		
Use Hot Line :	© Enable	
Hot line number:		
	Submit Reset	

Alarm Settings

8.31. You can configure the Alarm setting in this page.

Alarm Settings

You could set the alarm time in this page.		
Alarm:	ON OFF	
Alarm Time:	0 : 0 (hh:mm)	
Current time:	2007-05-03 11:25	
	Submit Reset	

Network

8.32. You can check the Network status, and configure the WAN, LAN, DDNS, and VLAN settings in this section.

Network Status

8.33. You can check and show the current Network setting in this page.



Network Status

This page shows current status of network interfaces of the system.

Interface 0	
Туре:	DHCP Client
IP:	192.168.62.122
Mask:	255.255.255.0
Gateway:	192.168.62.1
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

Interface 1	
Туре:	DHCP Server
IP:	192.168.123.1
Mask:	255.255.255.0
Gateway:	192.168.123.1
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

WAN Settings

- 8.34. The WAN setting is used to configure the Ethernet port connects to the ADSL Modem/Router.
- 8.35. The default setting is NAT mode for IP PHone, and this enables the embedded NAT router between the LAN port and PC port. You may change to Bridge Mode if you need NOT use the embedded NAT router. When setting to Bridge Mode, the WAN and the LAN ports will be bridged.
- 8.36. There are three selections for WAN: Fixed IP, DHCP Client, and PPPoE modes. This WAN setting is for the LAN port when set in NAT mode. The WAN default is at DHCP Client Mode.
- 8.37. For Fix IP Mode, please make sure the IP address. Net Mask, Gateway, and DNS settings are suitable in your current network environment.
- 8.38. For PPPoE Mode, you have to enter correct username and password to get the IP address from your Internet Service Provider.
- 8.39. When you finished the setting, please click the Submit button.



WAN Settings

You could configure the WAN settings in this page

LAN Mode: Bridge INAT WAN Setting IP Type: Fixed IP ODE DHCP Client PPPoE IP: 192.168.62.122 255.255.255.0 Mask: Gateway: 192.168.62.1 168.95.192.1 DNS Server1: DNS Server2: 168.95.1.1 MAC: 000926003a74 VOIP_PHONE Host Name: PPPoE Setting User Name: Password:

Submit Reset

Service Name:

LAN Settings

- 8.40. The default IP address is 192.168.123.1 for VP3302B, with Net Mask 255.255.255.0., and DHCP Server enabled. The IP addresses for DHCP are from 150 to 200.
- 8.41. Connect your PC to the PC port, set your PC as DHCP Client mode, and then the PC will get an IP address from the VP3302B automatically.
- 8.42. When you finished the setting, please click the Submit button.



LAN Settings

You could configure the LAN settings in this page.

LAN Setting			
IP:	192.168.1	123.1	
Mask:	255.255.2	255.0	
MAC:	00092600)3a74	
DHCP Server			
DHCP Server:	🖲 On 🖉	Off	
Start IP:	150		
End IP:	200		
Lease Time:	1	0	(dd:hh)

Submit Reset

DDNS Settings

8.43. You can configure the DDNS setting in this page. You need to have the DDNS account and input the informations properly. You need a DDNS account with a public IP address then others can call you via the DDNS account. Most of the VoIP applications are working with a SIP Proxy Server as well as DDNS Server. When you finished the setting, please click the Submit button.

DDNS Settings

You could set the configuration of DDNS in this page.

DDNS:	◉ On ⊚ Off
Host Name:	voipphone.dyndns.org
User Name:	test
Password:	••••
E-mail Address:	
DDNS Server:	
DDNS Server List:	members.dyndns.org 👻
Туре:	dyndns 👻
Wild Card:	on 👻
BACKMX:	⊙ On
Off Line:	© On
	Submit Reset

VLAN Settings

- 8.44. There are two parts for VLAN settings. One is to set for VoIP packets related to VP3302B, and the other is for the VLAN setting in the NAT Mode.
- 8.45. There are two kinds of destination packets coming to the WAN port, one is VoIP packets for VP3302B, and the other will go through the WAN port to the LAN port.
- 8.46. VLAN Packets: If you enable VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets will be checked with the IP Address and the VID.
- 8.47. VID: Please set your VID in accordance with your service provider.
- 8.48. User Priority: Defines user priority with eight (2³) priority levels. IEEE 802.1P defines the operation for these 3 user priority bits. Usually, this will be defined by your service provider.
- 8.49. CFI: Canonical Format Indicator is always set to zero for Ethernet switches. CFI is used for compatibility between Ethernet type network and Token Ring type network. If a frame received at an Ethernet port has a CFI set to 1, then that frame should not be forwarded as it is to an untagged port. When you enable the VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets with VP3302B IP address and the same VID will be accepted by VP3302B. If the incoming packets with VP3302B IP address but different VID then the packets will be discarded by VP3302B. The Other incoming packets with different IP address will go through the WAN port to the LAN port.
- 8.50. NAT VLAN Setting: When set in embedded NAT mode, the VP3302B will filter out the wrong incoming packets. You can separate the other devices connected behind the embedded NAT into 4 VLAN groups by assigning different VID for these 4 groups. VP3302B will check the VID of the incoming packets from ADSL modem. If the packet is not with VP3302B IP address and the right VID, or the VID is not of these 4 VIDs you set, then the packets will be discarded by VP3302B.



VLAN Settings

You could set the VLAN settings in this page.

VLAN Packets:	🔘 On	Off
VID (802.1Q/TAG):	136	(2 ~ 4094)
User Priority (802.1P):	0	(0 ~ 7)
CFI:	0	(0 ~ 1)

NAT VLAN Setting		
VLAN Packets:	On	Off
VID1:	4	(2 ~ 4094), 0->Off
VID2:	5	(2 ~ 4094), 0->Off
VID3:	6	(2 ~ 4094), 0->Off
VID4:	7	(2 ~ 4094), 0->Off

Reset

Submit

DMZ Setting

8.51. The DMZ can be enabled/disabled and configured in this page.



DMZ Setting

You could configure your demilitarized zone setting in this page.

DMZ:	© On ● Off
DMZ Host IP:	0.0.0
	Submit Reset

Virtual Server

8.52. The Virtual Server IP and Port numbers can be configured in this page.

	Virtu	al S	erver	Settin	gs		
E d g e - c o r E Powered by Accton	You could (Control) 53] and T	l set your v TCP 21], F elent [TCP	irtual servers i TP(Data) [TCF 23].	n this page. T 20], E-mail(he usual port n POP3) [TCP 11	umbers are WEB [TCP 8 0], E-mail(SMTP) [TCP 2	0], FTP 5], DNS [UDP
	Virtual S	erver Pag	e: page 1 👻				
Phone Book	Num	Enable	Protocol	In Port	Ex Port	Server IP	Select
Phone Setting	0						
> inche cottang	1						
Netrestatus	2						
WAN Settings	4						
SIP LAN Settings	5						
VLAN Settings	6						
DMZ Setting	7						
	Enabl	e Selected	Delet	e Selected	Delete All	Reset	
System Auth.	Add Virtu	al Server					
	Num:	[(0~:	23)			
Save Change	Server IP:	[
	Protocol:	[TCP 👻				
Update >	Internal I	ort:		External P	ort:		
Reboot	Add Se	rver	eset				

PPTP Setting

8.53. The PPTP Server can be set ON/OFF in this page.

PPTP Settings

You could set the PPTP server in this page.

PPTP:	© On ⊚ Off
PPTP Server:	
PPTP Username:	
PPTP Password:	
	Submit Reset

SIP Settings

Service Domain Settings

- 8.54. You can setup the Service Domain, Port Settings, Codec Settings, RTP Setting, RPort Setting and Other Settings for SIP Proxy Server registrations in this page.
- 8.55. You may register up to three SIP Servers for three Realms in the VP3302B. You can receive the incoming calls from all the three SIP Servers. For outgoing calls, you may select the registration SIP server first, and then call the associated registration phone number.

Example 1: To select SIP Server **1** (default), please pickup the phone, press **1_***, then hangup.

Example 2: To select SIP Server **2** (or **3**), you may press **2_*_Speaker** (or **3_*_speaker**).

- 8.56. Click "Active" ON to enable the Service Domain, then enter the following items:
- 8.57. **Display Name:** enter the name you want to display.
- 8.58. User Name: enter the User Name given by your ITSP.
- 8.59. Register Name: enter the Register Name given by your ITSP.
- 8.60. Register Password: enter the Register Password given by your ITSP.
- 8.61. Domain Server: enter the Domain Server given by your ITSP.
- 8.62. **Proxy Server:** enter the Proxy Server given by your ITSP.
- 8.63. **Outbound Proxy:** enter the Outbound Proxy of ITSP. If not provided, you may skip this.
- 8.64. When it shows "**Registered**" in the Register Status, it indicates a successful registration to the ITSP, and the "**REG**" LED will turn **ON**. The VP3302B is then ready for VoIP call.
- 8.65. After you finished the setting, please click the "Submit" button.



Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default)	
Active:	⊙ On
Display Name:	
User Name:	
Register Name:	
Register Password:	
Domain Server:	
Proxy Server:	
Outbound Proxy:	
Subscribe for MWI:	⊙ On
Status:	Not Registered

Realm 2

Active:	⊙ On
Display Name:	
User Name:	
Register Name:	
Register Password:	
Domain Server:	
Proxy Server:	
Outbound Proxy:	
Subscribe for MWI:	⊙ On

Port Settings

8.66. The SIP Port and RTP Port numbers are default at 5060 and 60000, respectively. The RTP port number must be even number. If you have more than one VoIP phones under the same NAT router, it is recommended that different RTP port numbers be assigned to each of IP Phones.

Port Settings You could set the port number in this page. SIP Port: 5060 (10~65533) RTP Port: 60000 (10~65533) Submit Reset

Codec Settings

8.67. You can setup the Codec priority, RTP packet length, and VAD function in this page. When you finished the setting, please click the Submit button.



Codec Settings

You could set the codec settings in this page.

Codec Priority	
Codec Priority 1:	G.711 u-law 👻
Codec Priority 2:	G.711 a-law 🔻
Codec Priority 3:	G.723 🔹
Codec Priority 4:	G.729 🔻
Codec Priority 5:	G.726 - 16 🔹
Codec Priority 6:	G.726 - 24 🔹
Codec Priority 7:	G.726 - 32 🔹
Codec Priority 8:	G.726 - 40 🔹
Codec Priority 9:	GSM 👻

RTP Packet Length	
G.711 & G.729:	20 ms 🔻
G.723:	30 ms 👻
G.723 5.3K	
G.723 5.3K:	⊙ On
Voice VAD	
Voice VAD:	⊙ On ● Off
	Submit Reset

Codec ID Settings

8.68. You can set the Codec ID to meet the other device's requirement. When you finished the setting, please click the Submit button.



Codec ID Setting

You could set the value of Codec ID in this page.

Codec Type	ID	Default Value
G726-16 ID:	23 (95~255)	23
G726-24 ID:	22 (95~255)	22
G726-32 ID:	2 (95~255)	☑ 2
G726-40 ID:	21 (95~255)	☑ 21
RFC 2833 ID:	101 (95~255)	I 01
	Submit Reset	

DTMF Settings

8.69. You can setup the options for DTMF function in this page. The options include RFC2833 (Outband DTMF), Inband DTMF, and Send DTMF SIP info. If you are making two-stage callings for extension to PSTN, you might need to select RFC2833 DTMF option.

E d g e – c o r E Powered by Accton	DTMF Setting You could set the DTMF setting in this page.
Phone Setting	
	Inband DTMF
Network	Send DTMF SIP Info
SIP S Service Domain Port Settings NAT Codec Settings Codec ID Setting DTMF Settings RPort Settings Other Settings	Submit Reset

RPort Function

8.70. You can enable/disable the RPort in this page. To change this setting, please follow your ISP information. When you finished the setting, please click the Submit button.

RPort Setting		
You could enable/disable the RPort setting in this page.		
RPort:	◉ On ⊚ Off	
	Submit Reset	

Other Settings

8.71. You can setup the Hold by RFC, Voice/SIP QoS and SIP expire time in this page. To change these settings please following your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. Higher value for voice packets will get higher priority to the Internet. It is required that all the Internet routes are with the QoS function for voice priority.



Other Settings

You could set other settings in this page.

Hold by RFC:	◎ On
Voice QoS (Diff-Serv):	40 (0~63)
SIP QoS (Diff-Serv):	40 (0~63)
SIP Expire Time:	60 (15~86400 sec)
Use DNS SRV:	⊙ On

Submit	Reset
--------	-------

NAT Transversal

Update

STUN Setting

8.72. You can Enable/Disable and configure STUN Server IP address in this page. This function helps IP Phone working properly behind NAT. To change these settings please follow your ISP information. When you finished the setting, please click the Submit button.

E d g e – C o r E Powered by Accton	STUN Setting You could set the IP of STUN server in this page.			
Phone Setting	STUN:	⊙ On		
Network	STUN Server:	stun.xten.com		
SIP Settings	STUN Port:	3478 (1024~65535)		
NAT TISTUN Settings		Submit Reset		
Others >				
System Auth.				
Save Change				

Others

8.73. You can setup Auto Config, MAC Clone, Tone and Some Advanced Settings in this page.

Auto Configuration Setting

8.74. Auto Configuration function can be used to download the configuration file stored in the TFTP, HTTP, or FTP server. This function must co-work with the Auto Config Server. After enabling the function, please click the "Submit" button. Remember to click "Save" in the Save Change section. The IP Phone will then reboot and automatically download the configurations from the corresponding server. Note that the TFTP download works only for public IP address.

E d g e – c o r Powered by Acc	ton
Phone Setting	> ^
Network	>
SIP Settings	•
NAT Trans.	>
Oth Auto Config	
MAC Clone Setting SysTones Settings Advanced Settings	E
Save Change	

Auto Configuration Setting

You could enable/disable the auto configuration setting in this page.					
Auto Configuration:	Off	© TFTP	© FTP	© HTTP	
TFTP Server:					
HTTP Server:				Ex	p. 60.35.187.30
HTTP File Path:				Ex	p. /download/
FTP Server:				Ex	p. 60.35.17.1
FTP Username:					
FTP Password:					
FTP File Path:				Ex	p. /file/load

Submit Reset

MAC Clone Setting

8.75. The MAC Clone function is to clone the MAC when only one MAC is available from ITSP. This is to share with the PC using the same MAC. When you finished settings, please click the Submit button.

MAC Clone Setting

You could enable/disable the MAC clone setting in this page.

MAC Clone:	⊚ On (● Off
	Submit Reset

Tones Settings

8.76. The Tone setting can be adjusted to generate Dial tone, Ring tone, Ring Back tone, and Busy tone for different countries. When you finished with the settings, please click the Submit button.

Tones Settings

You could configure your tones settings in this page.

	Dial Tone	Ring Back Tone	Busy Tone	Error Tone	Ring Tone	Insert Tone
Cadence On:		V		V		
Hi-Tone Freq.:	440	480	620	620	480	440
Lo-Tone Freq.:	350	440	480	480	440	350
Hi-Tone Gain:	4522	2261	2261	2261	15360	2261
Lo-Tone Gain:	2261	2261	2261	2261	15360	1130
On Time 1:	0	200	50	30	200	30
Off Time 1:	0	400	50	20	400	20
On Time 2:	0	0	0	0	0	30
Off Time 2:	0	0	0	0	0	400
On Time 3:	0	0	0	0	0	0
Off Time 3:	0	0	0	0	0	0
	Submit	Reset				

Advanced Setting

8.77. The advanced settings might be useful for some network requirements. The ICMP function is to echo when someone ping this device. This can prevent from haker attacking the device by not echoing. When you finished the setting, please click the Submit button.



Advanced Setting

You could change advanced setting in this page.

ICMP Not Echo:	Yes	No	
Send Anonymous CID:	Yes	No	
Send Flash event:	Disable	d 👻	
SIP Encrypt:	Disable	d 👻	
PPPoE retry period:	5	Seconds	
System Log Server:			
System Log Type:	None		-

Submit	Reset
--------	-------

System Authority

8.78. The user login name and password can be changed in this page.

Edge-corE	System Au	uthority
Powered by Accton	You could change the lo	gin username/password in this page.
	New username:	
<u></u>	New password:	
Phone Book	Confirmed password:	
Phone Setting		Submit Reset
Network		
SIP Settings		
NAT Trans.		
Others		
System Auth.		

Save Change

8.79. If you want to save the changes you have made for new setting in the VoIP Phone, You have to click the Save button. After you click the Save button, the VoIP Phone will automatically restart and the new setting will get effective.



Update

Update Firmware

- 8.80. The IP Phone provides two methods, HTTP or TFTP, to update new firmware as the following steps:
- 8.81. Select the firmware code type, Risc or DSP code. (mostly for Risc code)
- 8.82. Click the "Browse" button to choose the updated file location for HTTP download, or
- 8.83. Select TFTP and enter the IP address of TFTP server for firmware download, then click the "Update" button.



Update Firmware

You could update the newest firmware.				
Method:	Local PC O TFTP			
Local PC				
Code Type:	Risc 🔻			
File Location:	瀏覽			
TFTP				
TFTP Server:	192.168.1.250			
	Update Reset			

Auto Update Settings

8.84. The IP Phone provides two methods, HTTP or TFTP, to update new firmware as the following steps:

E d g e – c o r Powered by Acct		Auto Update Settings You could set auto update settings in this page.			
,	U	pdate via:	©Off ©TFTP ©FTP ⊛H	ТР	
Network	т	FTP Server:			
INCLWOIR	> н	TTP Server:	192.168.62.249:800	Exp. 60.35.187.30	
SIP Settings	н	TTP File Path:	/vp306h/	Exp. /download/	
NAT Trans.	F	TP Server:		Exp. 60.35.17.1	
	F	TP Username:]	
Others	F	TP Password:			
	F	TP File Path:		Exp. /file/load	
System Auth.	=				
	C	heck new firmware:	Power ON Scheduling		
Save Change	s	cheduling (Date):	1 (1~30 days)		
	S	cheduling (Time):	AM 00:00- 05:59 💌		
Updane Firmware	A	utomatic Update:	Notify only		
Auto Update	F	irmware File Prefix:	PHONE		
ReboDefault Settings					
	- N	ext update time:	2007-05-04 03:07		
4 III	-		Submit Reset		

Restore Default Settings

8.85. You can restore the VoIP Phone to factory default in this page. Click the Restore button, then the IP Phone will restore to default and automatically restart again.

Restore Default Settings

You could click the restore button to restore the factory settings.

Restore default settings: Restore

Reboot

8.86. If you want to restart the VoIP Phone, you can just click the Reboot button, and then the VoIP Phone will restart automatically.

Reboot System

You could press the reboot button to restart the system.

Reboot system: Reboot

9. LCD Display with Keypads Settings

Keypad Descriptions:

Key Name	Descriptions
1	"1", "-", " ,", "!", "?"
2	"2", "a", "b", "c", "A", "B", "C"
3	"3", "d", "e", "f", "D", "E", "F"
4	"4", "g", "h", "I", "G", "H", "I"
5	"5", "j", "k", "l", "J", "K", "L"
6	"6", "m", "n", "o", "M", "N", "O"
7	"7", "p", "q", "r", "s", "P", "Q", "R", 'S"
8	"8", "t", "u", "v", "T", "U", "V"
9	"9", "w", "x", "y", "z", "W", "X", "Y", "Z"
0	"0", "space"
*	"*", "•", " <mark>-</mark> ", "@"
#	Start dialing process.
REDIAL	"REDIAL" the last previous number again.
HOLD	"HOLD" the current call.
TRANSFER	"Transfer" to the other phone number.
MENU	The "Menu" key is to set the IP Phone
ENTER	The "Enter" is for setting selections.
VOL +/-	This is for phone volume settings.
UP/DOWN	Up↑ and Down↓ keys for LCD display.
P. BOOK	To show the phone book list.
CALL LOG	To show Incoming/outgoing calls history.
DEL/MUTE	To delete or to mute IP phone.
CONF.	For 3-Way Conference Calls.
M1~M5	These are for 5 speed dial numbers.
LINE1~LINE 3	For Realm 1 to Realm 3 SIP registrations.
DND	To enable/disable DND for call reject.
FORWARD	This is for forward function.
VMS	This is for voice messages.
PICK UP	To pick up incoming call for other IP Phones.
SPK	This is for Speaker Phone.

LCD Display with Keypad Settings:

1. Phone	Book
----------	------

- 1.1 Search: Search Phone Book.
- 1.2 Add entry: Add new phone number to phone book.
- 1.3 Speed dial: Add speed dial phone number to speed dial list.
- 1.4 Erase all: Erase all phone number from Phone Book.
- 2. Call history

Show all incoming call.
Show all dialed call.
Delete call history.
Delete all call history.
Delete all incoming call.
Delete all dialed out call.

3. Phone setting

 3.1 Call forward:	
3.1.1 All Forward:	
3.1.1.1 Activation:	To Enabled/Disabled this function.
3.1.1.2 Number:	Forward to a registered or URL Number.
3.1.2 Busy Forward.	C C C C C C C C C C C C C C C C C C C
3.1.2.1 Activation:	To Enabled/Disabled this function.
3.1.2.2 Number:	Forward to a registered or URL Number.
3.1.3 No Answer Forward.	
3.1.3.1 Activation:	To Enabled/Disabled this function.
3.1.3.2 Number:	Forward to a registered or URL Number.
3.1.4 Ring Timeout:	Set the Ring times to start the No Answer Forward function.
3.2 Do not Disturb	
3.2.1 Allways:	Block all calls
3.2.2 By Period:	Block calls by the period time
3.2.3 Period Time:	Set the start time and end time to Block calls.
3.3 Alarm Setting:	
3.3.1 Activation:	Enable/Disable alarm
3.3.2 Alarm Time:	Set the alarm time
3.4 Date/Time setting:	Oct the ID Dhans Data and Time
3.4.1 Date & Time:	Set the IP Phone Date and Time.
	Enchlad / Dischla SNTD
3.4.2.1 SNTP. 2.4.2.2 Drimony SNT	Enabled / Disable SNTP.
3.4.2.2 FIIIId y SNI 2.4.2.2 Secondary S	NTD: Set Secondary SNTP server ID address of URL.
3.4.2.3 Secondary S	Set Time zone
3 4 2 5 Adjustment T	Time: Set adjustment time period
3.5 Volume and Gain	
3.5.1 Handset volume	Set Handset volume from $0 \sim 15$ (max.) for you to hear
3 5 2 Speaker volume:	Set Speaker phone volume from 0~15 (max.) for you to hear
3.5.3 Handset Gain:	Set Handset Gain from 0~15 (max.) for remote site to hear.
3.5.4 Speaker Gain:	Set Speakerphone Gain from 0~15 (max.) for remote site to hear.
3.6 Ringer:	
3.6.1 Ringer volume:	Ringer volume selection from 0~15 (max.).
3.6.2 Ringer type:	Ringer tone selection from 1~4.

3.7 Auto Dial: Auto Dial time selection from 3~9 seconds.

4. Network

- 4.1 WAN Setup:
 - 4.1.1 IP Type:
 - 4.1.1.1 Fixed IP client
 - 4.1.1.2 DHCP client:
 - 4.1.1.3 PPPoE client:
 - 4.1.2 Fixed IP setting:
 - 4.1.2.1 Host IP
 - 4.1.2.2 Subnet mask
 - 4.1.2.3 Gateway IP
 - 4.1.3 PPPoE setting:
 - 4.1.3.1 User name
 - 4.1.3.2 Password
- 4.2 LAN Setup:
 - 4.2.1 Bridge
 - 4.2.2 NAT
- 4.3 DNS Server:
 - 4.3.1 Primary DNS
 - 4.3.2 Secondary DNS

4.4 VLAN:

- 4.4.1 Activation
- 4.4.2 VID
- 4.4.3 Priority
- 4.4.4 CFI

4.5 Status: Show IP addresses of WAN, LAN and MAC address (use UP/Down keys).

5. SIP Settings

To set the SIP setting from keypad, you have to press Menu_7_4 to input the password first, or the SIP setting may not be allowed to access.

5.1 Service Domain

5.1.1 First realm

0	- Hot Found				
	5.1.1.1 Activation:				
	5.1.1.2 User name:				
	5.1.1.3 Display name:				
	5.1.1.4 Register name:				
	5.1.1.5 Register password	d:			
	5.1.1.6 Proxy server:	Proxy Server IP Address			
	5.1.1.7 Domain server:	Domain Server IP Address			
	5.1.1.8 Outbound proxy:	Outbound Proxy IP Address			
5.2 Codec		·			
5.2.1	Codec type				
	5.2.1.1 G.711 uLaw:	G.711 uLaw			
	5.2.1.2 G.711 aLaw:	G.711 aLaw			
	5.2.1.3 G.723:	G.723.1			
	5.2.1.4 G.729:	G.729A			
	5.2.1.5 G.726-16:	G.726 16Kbps			
	5.2.1.6 G.726-24:	G.726 24Kbps			
	5.2.1.7 G.726-32:	G.726 32Kbps			

- 5.2.1.8 G.726-40: 5.2.2 VAD:
 - 0: G.726 40Kbps Voice Activity Detection Enable/Disable.

	5.3 RTP Setting:	
	5.3.1 Outband DTMF:	Outband DTMF Enabled/Disabled.
	5.3.2 Duplicate RTP	
	5.3.2.1 No duplicate	e: No resend voice packets.
	5.3.2.2 One duplica	te: Resend voice packets once.
	5.3.2.3 Two duplicat	te: Resend voice packets twice.
	5.4 RPort Setting: RPo	ort Enabled/Disabled.
	5.5 Hold by RFC: Hol	d by RFC3261 Enabled/Disabled.
	5.6 Status: Use	e Up/Down keys to show the SIP Proxy register status.
6.	NAT Transversal	
	6.1 STUN setting	
	6.1.1 STUN: STU	JN Enabled/Disabled.
	6.1.2 STUN server: Ser	ver IP Address or URL.
7.	Administrator	
	7.1 Auto Config	
	7.1.1 Config Mode:	Select Disable/TFTP/FTP/HTTP for auto config function with server.
	7.1.2 TFTP server:	Set the TFTP server IP address.
	7.1.3 FTP server:	Set the FTP server IP address.
	7.1.4 FTP Login Name:	Set the login name to the FTP server.
	7.1.5 FTP Password:	Set the Password to the FTP server.
	7.2 Upgrade System:	You can restore to the default setting.
	7.2.1 Upgrade Now:	Select Yes/No to upgrade with the upgrade Server.
	7.2.2 Upgrade via:	Select Disable/TFTP/FTP/HTTP to do upgrade.
	7.2.3 Status:	
	7.2.4 Reset Time:	Set Yes/No to reset time.
	7.3 Default setting:	To load/abort the default setting.
	7.4 System Authority:	Must enter the password first for SIP setting. Default is "test".
	7.5 Version:	I his shows the firmware version.
	7.6 vvatch Dog:	This enables watch Dog function for debugging.
	1.1 Restart:	I his function will restart your IP Phone.

10. VoIP Application Examples

You can use PC Web browser to configure VP3302B. For example, enter <u>http://192.168.123.1</u> from PC web browser.

A. ADSL Connections without NAT Router for VP3302B



B. ADSL Connections with NAT Router for VP3302B



Example 1: SIP-to-SIP Calling/Answering

Applications:

The SIP-to-SIP calling works when both calling and answering parties are registered to SIP server with given registered phone numbers. The ADSL connections can be as in either Diagrams A or B. Both parties are registered to SIP server under NAT router. For Diagram A without NAT router, you may select NAT mode to enable the embedded NAT router. For Diagram B with external NAT router, you may select Bridge mode to disable the embedded NAT. Configurations:

- 1. Select either "NAT" or "Bridge" in accord with your network in "WAN settings" page,
- 2. Select "DHCP Client" to automatically get an IP address from NAT router.
- 3. Remember to click the "Submit" button,
- 4. Select Active "ON" in the "SIP settings / Service Domain" page,
- 5. Enter the Register Name, Register Password, Proxy Server, and Outbound Proxy,
- 6. Select "**ON**" in the "**STUN setting**", if Outbound Proxy is NOT available.
- Upon successful SIP registration, the REG LED indicator will be ON and the LCD will show registered <phone number>.

Callings:

- 8. Pick up the phone, and you should hear a dial tone for VoIP mode.
- Press 1688# or 1688 to call the party with the registered SIP phone number 1688. Note that # key will dial out the number immediately. Dialing without # will not dial out until the auto dial timer (default=5 seconds) elapsed.

Example 2: SIP to Direct IP Calling

Applications:

The application is for the calling party with ADSL connection as in either Diagrams A or B. The calling party is registered to SIP server with either fixed real IP or private IP under NAT router. The answering party is with fixed real IP. You may also use the Phone Book to call Direct IP Address. Configurations:

- 1. Same as in **Example 1**.
- 2. Select "**ON**" in "**STUN setting**" page, if Outbound Proxy is NOT available.
- 3. Upon successful SIP registration, the LCD will show registered **<phone number>**.
- Callings:
- 4. Press Speakerphone key, and you should hear a dial tone.
- 5. Press **211*21*191*4#** or **211*21*191*4** to call the party with the real IP address of **211.21.191.4.** In a moment, you should hear a ring back tone, and wait for the VoIP called party to answer.

Example 3: Direct IP to Direct IP Calling/Answering

Applications:

The applications are for ADSL connection without NAT router as in Diagram A. Both parties are with fixed real IP. The Direct IP calling works when both calling and answering parties are with known fixed IP. SIP server registrations are not required in this application. Configurations:

- 1. Select "Fixed IP" in the "Network / WAN settings" page,
- 2. Enter the items of IP, Subnet Mask, Gateway IP,
- 3. Click the "**Submit**" button.

Callings:

- 4. Pick up the phone, and you should hear a dial tone.
- 5. Press 211*21*191*4# or 211*21*191*4 to call the party with the real IP address of 211.21.191.4. Note that # key will dial out the number immediately. Dialing without # will not dial out until the auto dial timer (default=5 seconds) elapsed. In a moment, you should hear a ring back tone, and wait for the VoIP called party to answer.

Example 4: Direct IP to Direct IP Calling within NAT Router

Applications:

For the calling party in ADSL connection with NAT router as in Diagram B, this Direct IP calling can work when the answering parties are with fixed **private** IP addresses within the same VPN network, or with fixed **real** IP addresses.

Configurations:

- 1. Select "Fixed IP" in the "Network / WAN settings" page,
- 2. Enter the items of IP, Subnet Mask, Gateway IP,
- 3. Click the "Submit" button.

Callings:

- 4. Pick up the phone, and you should hear a dial tone
- Press 192*168*1*51# or 192*168*1*51 to call the party with the private IP address of 192.168.1.51. Press 211*21*191*4 to call the party with the real IP address of 211.21.191.4. In a moment, you should hear a ring back tone, and wait for the called party to answer.

Example 5: 3-Way Conference Call, Call Transfer, Call Waiting, Hold

Applications:

The Call Transfer and 3-Way Conference Call applications are for calls among Parties A, B, and C. Three parties are registered to SIP server with either fixed real IP or private IP. There are two kinds of call transfer; Blind Transfer and Attendant Transfer.

Blind Transfer:

- 1. Party A calls Party B.
- 2. While in conversation, Party B may press **Transfer** key, and should hear a dial tone.
- 3. Party B press [Party C number] # and hang up to transfer to Party C.

Attendant Transfer:

- 1. Party A calls Party B.
- 2. While in conversation, Party B may press **Transfer** key, and should hear a dial tone.
- 3. Party B press [Party C number] # and talk to Party C.
- 4. Hang up from Party B, and then Party A will transfer and connect to Party C.

3-Way Conference Call:

- 1. Party A calls Party B.
- 2. While in conversation, Party B may press **Hold** key to hold the call, and should hear a dial tone.
- 3. Party B calls Party C.
- 4. While in conversation, Party may press **Conf.** key to join in Party A for three-way conference.

Call Waiting Application:

When a new call is coming while you are talking, you will hear an interrupt "dodo" tone and you can press **Hold** key to answer the new incoming call. You may press **Hold** key to switch back to the previous call.

Call Hold Application:

You may press **Hold** key to hold the current call for a while, then press **Hold** key again to resume conversations.

11. Trouble Shooting for Web Configurations

11.1. DO NOT HEAR DIAL TONE?

When you pick up the phone and hear a busy tone, it indicates the WAN port is NOT connected. The LCD will show **Ethernet Error!** Make sure the ADSL Ethernet cable is connected to the WAN port of VP3302B and Power Reset again.

11.2. CAN NOT ACCESS WEB PAGE?

IE Web Browser is a useful tool to configure VP3302B. When you have difficulties in accessing the default IP address <u>http://192.168.123.1</u> of VP3302B as in the following figure, the most possibility is that the PC might have different subnet IP settings from 192.168.123.xxx. In this case, you must change VP3302B IP address to the same subnet as PC and NAT router.



Example: To change VP3302B IP address to the same subnet as PC and NAT router

- 1. Press the menu to enable DHCP Client mode. VP3302B will reboot, and LED will start flasing to get an IP address from NAT DHCP server.
- 2. Press Menu_4_5 to read IP Addresses for WAN and LAN Ports, for example, 192.168.62.51.
- 3. Enter from IE web browser http://192.168.62.51 to login VP3302B web page for configurations.

11.3. CONFIGURE PC'S IP SETTINGS FOR VP3302B EMBEDDED NAT FUNCTION?

If you don't have a router to connect both PC and VP3302B for sharing the only one IP address from ADSL/Cable modem, you should enable the embedded NAT function inside VP3302B. You need to change your PC's IP settings to recognize VP3302B as the default gateway. In this case, you should enable the embedded NAT router of VP3302B to provide more than one IP addresses for PC and VP3302B.



Example: To change PC IP address to the same subnet as 192.168.123.1 for VP3302B

- 1. As in Window 2000 (my computer),
 - At "Network and Dialup Connections", right click on "Local Area Connection", then click on property.
 - The "Local Area Connection Properties" window will pop up.
 - Double click on "Internet Protocol (TCP/IP)".
 - The "Internet Protocol (TCP/IP) Properties" window will pop up.
 - Click on "Use the following IP Address".
 - Enter IP: 192.168.123.50 (50 can be any number other than 1, which is used by VP3302B).
 - Enter Subnet mask: 255.255.255.0
 - Enter Default gateway: 192.168.123.1
 - Click on OK button.
- 3. You will lose internet connection at this time.
- 4. At IE browser, type http://192.168.123.1
- 5. Follow the example in "Advanced Settings for Embedded NAT" for web login.
- 6. At LAN setting, turn on DHCP server.
- 7. At WAN setting, choose "DHCP client" to work with your ADSL/Cable modem.
- 8. Save change, wait for VP3302B to reboot.
- 9. Change your PC's "Internet Protocol (TCP/IP) Properties" back to "obtain an IP address automatically".
- 10. You may press Menu_4_5 to read IP Addresses for WAN and LAN Ports.