Go to businessphones.vtech.com

to register your product for enhanced warranty support and the latest VTech product news.

4-Port Ethernet Router





Congratulations

on your purchase of this VTech product. Before using this product, please read the **Important safety information**.

This user's manual provides you with the complete installation, setup and operation instructions.

For customer service or product information, visit our website at **businessphones.vtech.com** or call **1 (888) 370-2006**.

Model number:	VNT814
Туре:	4-Port Ethernet Router
Serial number:	
Purchase date:	
Place of purchase:	

Both the model and serial numbers of your VTech product can be found on the bottom of the router.

Save your sales receipt and original packaging in case it is necessary to return your router for warranty service.

Important safety information

When using your equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

- 1. Read and understand all instructions.
- 2. Do not use this product near water such as near a bath tub, wash bowl, kitchen sink, laundry tub or a swimming pool, or in a wet basement or shower.
- 3. Do not place this product on an unstable table, shelf, stand or other unstable surfaces.
- CAUTION: Use only the adapters included with this product. Incorrect adapter polarity or voltage can seriously damage the product. Power adapter: Input 100-240V AC 200mA 50/60Hz; Output: 12V DC 500mA
- 5. The power adapters are intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.
- 6. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- 7. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 8. Do not cut off the power adapters to replace them with other plugs, as this causes a hazardous situation.
- 9. Do not allow anything to rest on the power cords. Do not install this product where the cords may be walked on or crimped.
- 10. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your dealer or local power company.
- 11. Do not overload wall outlets or use an extension cord.
- 12. This product should not be placed in any area where proper ventilation is not provided. Slots and openings in the back or bottom of this product are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa or rug. This product should never be placed near or over a radiator or heat register.
- Never push objects of any kind into this product through the slots because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
- 14. To reduce the risk of electric shock, do not disassemble this product, but take it to an authorized service facility. Opening or removing parts of the product other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the product is subsequently used.
- 15. Periodically examine all components for damage.

SAVE THESE INSTRUCTIONS

Important safety information

Electromagnetic fields (EMF)

This VTech product complies with all standards regarding electromagnetic fields (EMF). If handled properly and according to the instructions in this user's manual, the product is safe to be used based on scientific evidence available today.

Parts checklist

Your router package contains the following items. Save your sales receipt and original packaging in the event warranty service is necessary.

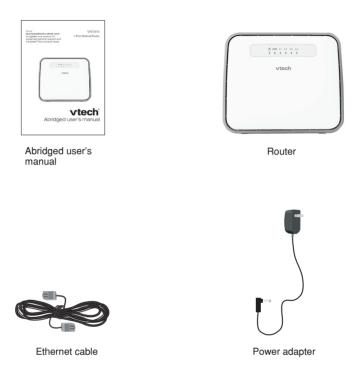




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Getting started Router overview



1 – 🖰 (On/Off) light

• On when the router is powered on.

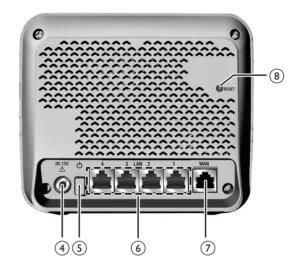
2 – WAN light

- On when the **WAN** port is connected.
- Flashes when the router receives data from the WAN port.

3 - L1 L2 L3 L4 lights

- On when the corresponding LAN port is connected.
- Flashes when the corresponding LAN port receives data.

Getting started Router overview



4 – Power jack

• Connects to the power adapter.

5 - O (On/Off) button

- Press to power on the router.
- Press once again to power it off.

6 - LAN ports

• Connect to Ethernet devices such as computers and SIP phones.

7 - WAN port

• Connects to the wide area network.

8 - RESET button

• Press and hold for five seconds to reset the router to default settings.

Getting started Plan and connect your system

The VNT814 router has four LAN ports to connect with Ethernet devices such as computers and SIP phones. Before you start setting up your system, plan it carefully. Consider the following before you start planning your system.

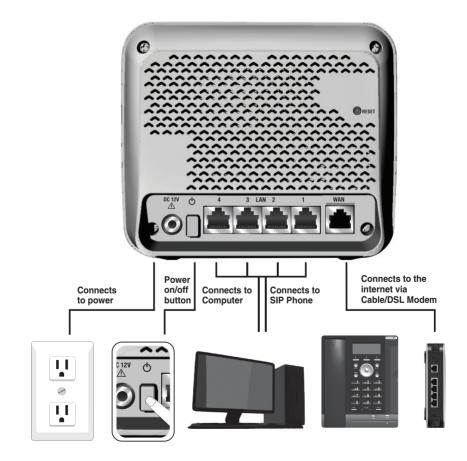
Number of Ethernet device(s) you need to connect with.

Number of router(s) you need.

PNOTES

- Use only the adapter provided.
- Make sure the electrical outlet is not controlled by a wall switch.
- The adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

To power on, press \bullet button at the back of the router. The \bullet light will light up.

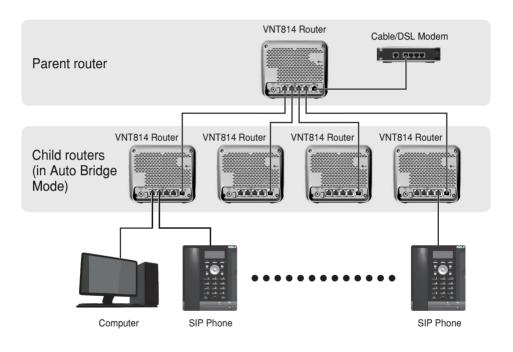


Getting started Plan and connect your system

To connect more than four Ethernet devices, you can purchase additional VNT814 router(s), and then connect them to the parent router. See the graphic below for more details.

PNOTES

- Make sure you have connected all routers and devices before you power on any router or device.
- Follow this sequence to power on the system: (1) Parent router, (2) Child routers, (3) other Ethernet devices.
- Child routers enter Auto Bridge Mode. All Ethernet devices obtain IP addresses from the parent router directly.



In order to view or change the settings of the VNT814 router, you need to login to the web management page of the router. Before that, connect your computer to the LAN port of the router, and then set the computer to obtain IP address automatically according to the steps below.

For Windows XP/2000

1. Click Start, then open the Control Panel.

Internet Internet Explorer	My Documents
E-mail Outlook Express	My Recent <u>D</u> ocuments →
	My Pictures
FEIXUN Wireless LAN 802.11n USB 2.0 Network	📂 My Music
HyperSnap-DX 5	My Computer
	🧐 My Network Places
Tour Windows XP	🚱 Control Panel
Riles and Settings Transfer Wizard	Set Program Access and K Defaults
🥡 Paint	Printers and Faxes
WordPad	🕐 Help and Support
	🔎 Search
All <u>P</u> rograms 🕨	70 <u>R</u> un
	Log Off 🚺 Turn Off Computer
🛃 start	

2. Double-click Network Connections.



3. Right-click Local Area Connection, then select Properties.

LAN or High-Speed Internet

AMD PONET Fa	Disable
	Status
	Repair
	Bridge Connections
	Create Shortcut
	Delete
	Rename
	Properties

4. Select Internet Protocal (TCP/IP), then click Properties.

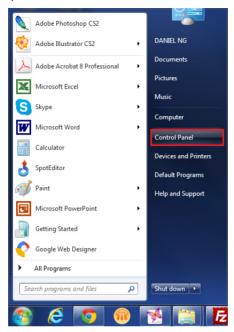
onnect usi	ng:		
AMD	PCNET Famil	y PCI Ethernet Ac	ta Configure
his connec	ction uses the	following items:	
🗹 📕 File	ent for Microso e and Printer S S Packet Sch	haring for Microso	oft Networks
Contraction of the local division of the loc	ernet Protocol	the second s	
Insta	I	Uninstall	Propertie
Descriptio	n		
wide area	a network prot	rotocol/Internet P ocol that provides nected networks.	
Show ic	on in notificati	on area when cor	nected
			ted or no connecti

5. Select Obtain IP address automatically and Obtain DNS server address automatically, then click OK.

Internet Protocol (TCP/IP) Properties 🛛 🔹 🔀					
General	Alternate Configuration				
this cap	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
 O 	Obtain an IP address automatically				
-OU:	Use the following IP address:				
IP as	address;				
Subr	bnet mask:				
Defa	fault gateway:				
0	Dbtain DNS server address automatically				
-OU:	Jse the following DNS server addresses:				
Prefe	ferred DNS server:				
Alter	ernate DNS server:				
	Advanced				
		zel			

For Windows Vista/7/8

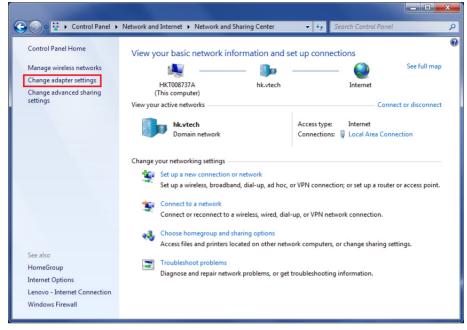
1. Click Start, then open the Control Panel.



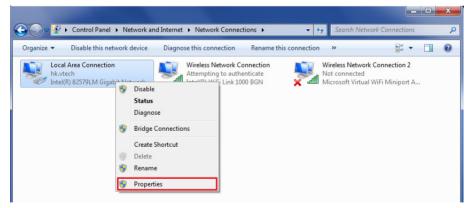
2. Click Network and Internet, then Network and Sharing Center.



3. Click Change adapter settings.



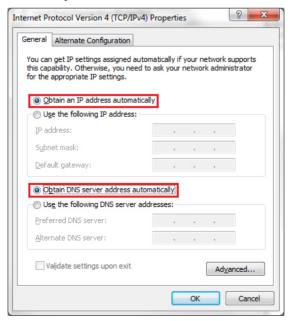
4. Right-click Local Area Connection, then select Properties.



5. Select Internet Protocal Version 4 (TCP/IPv4), then click Properties.

Local Area Connection Properties			
Networking Sharing			
Connect using:			
Intel(R) 82579LM Gigabit Network Connection			
Configure			
This connection uses the following items:			
Client for Microsoft Networks			
Trend Micro NDIS 6.0 Filter Driver			
🗹 📇 QoS Packet Scheduler			
🗹 📇 File and Printer Sharing for Microsoft Networks			
Internet Protocol Version 6 (TCP/IPv6)			
Internet Protocol Version 4 (TCP/IPv4)			
Link-Layer Topology Discovery Mapper I/O Driver			
Link-Layer Topology Discovery Responder			
Install Uninstall Properties			
Description			
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.			
OK Cancel]		

6. Select Obtain an IP address automatically and Obtain DNS server address automatically, then click OK.



Configure your router Login to the web management page

With your computer connected to the LAN port of the router and set to obtain IP address automatically, power on the router and you can login to the web management page to browse the router settings and change them if necessary.

- Before you browse the web management page, check your browser's network setting. Make sure you do not use a proxy server for LAN setting.
- 1. Open a web browser on your computer.
- 2. Type http://192.168.1.1 in the address bar, then press Enter. The following login page displays.

	- • ×
(←) → @ http://192.168.1.1/login.htm	↑ ★ ‡
VNT814 Login	
User Name:	
Password:	
Login Reset	

3. Enter the default user name and password as shown below. The user name and password are case-sensitive.

	User name	Password
Administrative account	admin	admin12345
Normal user account	user	user1234

4. Click Login to enter the web management page of the router.

• Both administrative account and normal user account can view the router settings. To change the settings, you must login using an administrative account.

Configure your router Fast configuration

The **Wizard** feature can guide you through the basic configurations of the router step by step.

1. Click the Wizard menu to start the fast configuration.

vtec								
Status 👐	Izani Setup Advan	ced Service	Firewall	Maintenance				
 Wizard Wizard 	Fast Config The wizard will help you do Step 1: WAN Connection St Step 2: Save Setting		tep by step.					
	Step 1: WAN Connection	Setting:	Please select the wan connection mode					
		O Bridge	OBridge					
	Connection Mode:		○ IPoE					
		• PPPoE						
	802.1q:	O Enable Disat	le					
	VLAN ID(1-4095):							
	PPP Settings:	Username:	Password:					
	Default Route:	Enable Disate	ole					
	DNS Settings:	Attain DNS Auto	Attain DNS Automatically					
		O Set DNS Manual	lly :					
	Next							

- 2. Select or input the information on the page as appropriate to configure the WAN settings. Click **Next** to proceed.
- 3. Preview the settings and click **Apply Changes** to save the settings. Otherwise, click **Prev** to return to the previous page or click **Cancel** to cancel the fast configuration.

Step 2:Save Settings	If you need finish settings "Cancel" or " Prev".	If you need finish settings in the fast config,please click "Apply Changes".otherwise please click "Cancel" or " Prev".					
Settings as follo	N:						
Channel Mode:		PPPoE					
ppp username:		123					
ppp password:		12345					
DNS Setting:		DNS Automatically					

Configure your router Status

The **Status** menu allows you to view the information and statistics of the router. Choose this menu and you can see the next sub-menus: **Device info** and **Statistics**.

Device info

Router status:

• Click the **Status** menu. The **Router Status** page under the **Device info** sub-menu in the left pane is opened automatically, displaying the basic information of the router, including system, LAN configuration, DNS status and Ethernet WAN interfaces.

vtech®							
Status. Wizard	Setup A	Advanced	Service	Firewall	Maintenance		
	Router Status This page shows the cu	irrent status and sc	me basic settings of th	ne device.			
Device Info Device Info	System						
	Alias Name	,	VNT814				
Statistics	Uptime	(D 0:0:31				
	Date/Time	:	Sun Jan 1 0:0:31 2012	í.			
	Firmware Version						
	Built Date						
	Serial Number	3	XG800001795				
	LAN Configuration						
	IP Address	3	192.168.1.1				
	Subnet Mask	:	255.255.255.0				
	DHCP Server	1	Enable				
	MAC Address		14:AE:DB:10:7A:81				
	ONS Status						
	DNS Mode	2	Auto				
	DNS Servers						

Configure your router Status

Statistics

• Click the **Statistics** sub-menu. The page displays the packet statistics for transmission and reception regarding network interface.

	Statistics This page shows the	a narkat statistics	for transmission	and recention rega	rding to petwork in	torface	
Device Info	Statistics:			and receptor regu	raing to notifori in		
Statistics			1	1			
Statistics	Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
	lan1	8000	0	0	7825	0	0
	lan2	D	0	0	0	0	0
	lan3	0	0	0	0	0	0
	lan4	0	0	0	0	0	0
	WAND	498	0	0	1015	0	0

Configure your router Setup

The **Setup** menu allows you to configure the functions of the router. Choose this menu and you can see the next sub-menus: **WAN** and **LAN**.

WAN

WAN configuration:

• Click the **Setup** menu. The **WAN Configuration** page under the **WAN** sub-menu in the left pane is opened automatically. You can configure the parameters for the WAN interface of your router, such as channel mode, PPP settings and WAN IP settings.

Status Wizard	Satup Advance	ed Service	Firewall	Maintenance
> WAN	WAN Configuration This page is used to configure th connect type of PPPoE and PPP			hernet Modem/Router, Note : When will be enable.
> WAN	Auto Bridge:	O Disable Enable		
V LAN	Default Route Selection:	O Auto Specified		
	Channel Mode:	Bridge 🔽	Enable NAPT:	
	Enable IGMP:			
	PPP Settings:			
	User Name:		Password:	
	Туре:	Continuous	Idle Time (min):	
	WAN IP Settings:			
	Туре:	Fixed IP	DHCP	
	Local IP Address:		Remote IP Address:	
	NetMask:			
	Default Route:	O Disable	Enable	O Auto

- **Auto Bridge**: Enable or disable the Auto Bridge Mode. If it is enabled, the child VNT814 router's DCHP mode will change to **DCHP Relay** automatically. See **DCHP mode** on page 17 for more details.
- Channel mode: It can be Bridge, IPoE or PPPoE.
- Enable NAPT: Enable or disable the NATP function.
- Enable IGMP: Enable or disable the IGMP function.
- User Name: User name of the PPP connection
- Password: Password of the PPP connection.
- Type (PPP settings): Continuous, Manual or Connect On Demand.
- Idle Time (min): The idle time of the PPP connection when the type is Connect On Demand.
- **Type** (WAN IP settings): **Fixed** or **DHCP**.
- Local IP address: The IP address of the router.
- Remote IP address: The gateway's IP address of the router.
- Netmask: The subnet mask of the router.
- Default Route: The mode of the default route of the router.

Configure your router Setup

LAN

LAN interface setup:

 Click the LAN sub-menu in the left pane. The LAN Interface Setup page is opened automatically. You can configure the LAN interface of your router, such as changing the setting for IP address and subnet mask.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	L J
		LAN Interface	Setup				
wan		This page is used t etc	to configure the LAN	I interface of your Router. I	Here you may change	e the setting for IP address,	subnet mask,
LAN		Interface Name	ə:	Ethernet1			
> LAN		IP Address:		192.168.1.1			
> DHCP		Subnet Mask:		255.255.255.0			
> DHCP Static		Secondar	y IP				
		IGMP Snoopin	g:	O Disable		Enable	
		Apply Changes					
		MAC Address	le recent	LAN1 LAN2	LAN3 LAN4		
		Apply Chan			·		
		New MAC Add	ress:		Add		
		Ourrent Al	lowed MAC Addr	ess Table:			
			MAC Add	ress		Action	

- **IP Address**: The IP address of the router's LAN interface. The default value is 192.168.1.1.
- **Subnet Mask**: The subnet mask of the router's LAN interface. The default value is 255.255.255.0.
- **Secondary IP**: If you enable the Secondary IP, you should configure another IP address and subnet mask for the LAN interface.
- **IGMP Snooping**: You can enable or disable the IGMP Snooping function by selecting the radio button.
- **MAC Address Control**: Select the LAN interface on which you want to run MAC Address Control.
- New MAC Address: You can add a new MAC address.
- The **Current Allowed MAC Address Table** shows the current allowed MAC address list.

Configure your router Setup

DHCP mode:

• Click **DHCP** in the left pane. In this page, you can configure the DHCP mode of your router as **None**, **DHCP Server** or **DHCP Relay**.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
V WAN D LAN > LAN		(1)Enable the DH your LAN. The de (2)Enable the DH DHCP server IP a	CP Server if you are vice distributes numb CP Relay if you are u ddress.	bers in the pool to host o	HCP server. This page in your network as they erver to assign IP addre	lists the IP address pools available to host on request Internet access. iss to your host on the LAN. You can set the
> DHCP		LAN IP Addre	ss: 192.168.1.1	Subnet Mask: 255.2	255.255.0	
> DHCP Static		DHCP Mode:		DHCP Server		
		Interface:				
		IP Pool Range	e:	192.168.1. 2	- 192.168.1. 254	Show Client
		Subnet Mask:		255.255.255.0		
		Default Gatew	/ay:	192.168.1.1		
		Max Lease Ti	ne:	1440 mi	nutes	
		Domain Name	e:	domain.name		
		DNS Servers:		192.168.1.1		

- **None**: The router will do nothing when the hosts require an IP address by DHCP protocal.
- DHCP Server: DHCP Server is used to configure correct TCP/IP protocol related parameters for the computer on you local network. If you enable the DHCP Server function, you can make the DHCP Server automatically configure the TCP/IP protocol parameters (such as IP address, subnet mask, gate way and DNS servers) for the computer on you local network.
- **DHCP Relay**: DHCP Relay is used if you are using the other DHCP Server to assign IP address to your Ethernet devices on the LAN. You can set the DHCP Server's IP address.

PNOTES

- If you have more than four Ethernet devices and they are connected to the additional VNT814 router(s) you purchased, there is no need to change the DHCP mode setting of the child router(s). Once a child VNT814 router is connected with a parent VNT814 router, the child router enters Auto Bridge Mode, and all Ethernet devices obtain IP addresses from the parent router directly. See Plan and connect your system on page 4 for more details.
- If you have more than four Ethernet devices and you are using an existing non-VTech router as the parent router and VNT814 router(s) as the child router(s), you need to set the DHCP mode to DHCP Relay for the VNT814 router(s) manually and make sure the non-VTech router has the DHCP setting enabled, so that all Ethernet devices obtain IP addresses from the parent router directly.

Configure your router Setup

DHCP static IP configuration:

• Click **DHCP Static** in the left pane. In this page, you can set the DHCP address reservation rules. The DHCP Static IP table shows the reserved IP address and MAC address that have been setup for the DHCP Server. You can manually input IP and MAC address to make a static assignment. Router searches the relevant entry in this table to assign IP address according to the client's MAC address. If the router cannot find a corresponding static entry, it will choose an unallocated IP address from DHCP pool assign to the client.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
WAN					evice distributes the num	ber configured to hosts on your network as
LAN		IP Address:		0.0.0.0		
> DHCP		Mac Address		00000000000	(ex. 00E086710502))
DHCP Static		Add De	lete Selected U	ndo		
		③ DHCP St	atic IP Table:			
		Select	IP Ad	ldress		MAC Address

The **Advanced** menu allows you to configure the advanced functions of the router. Choose this menu and you can see the next sub-menus: **Route**, **NAT**, **QoS**, **Port Mapping**, **Others**.

Route

Routing configuration:

• Click the **Route** sub-menu in the left pane. The **Static Route** page is opened automatically. You can configure the routing information such as adding and deleting IP routes.

vtech®						
Status Wizard	Setup	Advanced	Service	Firewall	Maintenance	
> Route	Routing Con This page is used		ng information. Here y	ou can add/delete IP routes		
Static Route	Enable:					
> RIP	Destination:					
V NAT	Subnet Mask:					
v QoS	Next Hop:					
Port Mapping	Metric:		1			
V Others	Interface:		~			
	Add Route		e Selected Show	v Routes		
	Select	State D	estination	Subnet Mask	NextHop	Metric Itf

- **Destination**: This parameter specifies the IP network address of the final destination.
- Subnet Mask: Enter the subnet mask for this destination.
- Next Hop: Enter the IP address of the gateway. The gateway is an immediate neighbour of your Router that will forward the packet to the destination. On the LAN, the gateway must be a router on the same segment as your Router; over Internet (WAN), the gateway must be the IP address of one of the remote nodes.
- **Metric**: Metric represents the cost of transmission for routing purposes. IP Routing uses hop count as the measurement of cost, with a minimum of 1 for directly connected networks. Enter a number that approximates the cost for this link. The number needs not to be precise, but it must between 1 and 15. In practice, 2 or 3 is usually a good number.
- Interface: The WAN interface to which a static route is to be applied.
- The Static Route Table shows the current static route entries.

RIP configuration:

 Click **RIP** in the left pane. Routing Information Protocol (RIP) is an internet protocol you can setup to share routing table information with other routing devices. In this page, you can configure the RIP settings such as enabling or disabling the RIP function.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
> Route		RIP Configu Enable the RIP if Protocol.		as a RIP-enabled rou	ter to communicate with	others using the Routing Information
Static Route RIP		RIP:	(● Off ○ On		Apply
M NAT		interface:		LAN 🗸		
QoS		Recv Version	:	RIP1		
Port Mapping		Send Version		RIP1		
V Others		Add Dele	ete			
		③ Rip Confi	ig List:			
		Select	interface	Re	ecv Version	Send Version

- **RIP**: Enable or disable the RIP function of the router.
- Interface: The interface on which you want to enable RIP.
- **Recv Version**: Indicates the RIP version in which information must be passed to the device it can be accepted into its routing table.
- **Send Version**: Indicates the RIP version this interface will use when it sends its route information to the other device.
- The RIP Config List shows the current RIP setting of the device.

NAT

You can set up the Network Address Translation (NAT) function in the **NAT** sub-menu.

DMZ:

• Click the **NAT** sub-menu in the left pane. The **DMZ** page is opened automatically, where you can configure the DMZ settings.

A Demilitarized Zone (DMZ) is a host between a private local network and the outside public network. Users of the public network outside the company can access the DMZ host. It allows you to expose one network user to the internet for some special-purpose services such as internet gaming or video conferencing. DMZ hosting forwards all the ports at the same time to one computer. You should assign a static IP address to the destination computer before you use this feature.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
▼ Route			MZ host contains devices			ccess to its local private network.) servers, FTP servers, SMTP (e-mail)
> DMZ		WAN Interfa	ice:		WAND	
> Virtual Server		DMZ Host IF	Address:			
> ALG						
> NAT Exclude IP		Apply Chang				
> Port Trigger		Ourrent				
> FTP ALG Port		Se	lect	WAN Inte	erface	DMZ IP
> Nat IP Mapping		Delete Selec	ted			
QoS Port Mapping Others	9					

- **WAN Interface**: Select the desired WAN interface by clicking the dropdown list.
- **DMZ Host IP Address**: Enter the specified IP Address for DMZ host on the LAN side.

Virtual server:

• Click **Virtual Server** in the left pane. This page allows you to configure the virtual server so that others can access the server through the Gateway.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	1
		Virtual Serv					
Route		This page allows	you to config virtual	erver,so others can acce	ess the server through the	he Gateway.	
D NAT		Service Type					
> DMZ		Usual Se	rvice Name:	AUTH 🗸			
Virtual Server]	O User-defi	ined Service Name:]		
> ALG		Protocol:					
> NAT Exclude IF	2	WAN Setting	:	Interface 🗸			
> Port Trigger		WAN Interfac	ce:	WAND V			
> FTP ALG Port		WAN Port:		113	(ex. 5001:5010)		
> Nat IP Mapping					(6x. 5001.5010)		
		LAN Open Pe	ort:	113			
QoS		LAN IP Addr	ess:]		
Port Mappin	g						
Others		Apply Change	es				
		Ourrent \	/irtual Server Forw	arding Table:			
		ServerName	Protocol L	ocal IP Address Lo	cal Port WAN IP A	ddress WAN Port	State Action

- Usual Service Name & User-defined Service Name: The name of this virtual server.
- **Protocol**: The protocol of this virtual server used. It can be **TCP** or **UDP**.
- WAN Setting: The WAN setting of this virtual server used. It can be Interface or IP address.
- **WAN Interface**: The interface on which the virtual server used on WAN side.
- **WAN Port**: The open port on WAN side. It can be either a single port or a port range.
- LAN Open Port: Enter the specific start and end port number you want to forward. If it is one port only, you can enter the end port number the same as start port number. For example, if you want to set the FTP virtual server, set the start and end port number to 21.
- LAN IP Address: The IP address of the host which provides the service on LAN side.
- The **Current Virtual Server Forwarding Table** displays the information about the virtual servers you established.

NAT ALG and pass-through:

• Click **ALG** in the left pane. In this page, you can configure the Application Layer Gateway (ALG) settings such as enabling or disabling the ALG or pass-through function for each application.

Status Wizard	Setup Advanced	Service Firew	all Maintenance
V Route	NAT ALG and Pass-Throu Setup NAT ALG and Pass-Through		
NAT	IPSec Pass-Through:	Enable	
> DMZ	L2TP Pass-Through:	Enable	
> Virtual Server	PPTP Pass-Through:	Enable	
> ALG	FTP:	Enable	
> NAT Exclude IP	H.323:	Enable	
> Port Trigger	SIP:	Enable	
> FTP ALG Port	RTSP:	Enable	
> Nat IP Mapping	ICQ:	Enable	
	MSN:	Enable	
💆 QoS			
Port Mapping	Apply Changes Reset		
V Others			

NAT exclude IP:

• Click **NAT Exclude IP** in the left pane. In this page, you can configure some source IP addresses which use the purge route mode when accessing the internet through the specified interface.

Status	Wizard	Setup		Service	Firewall	Maintenanc	e
v Route		NAT EXCLUI This page is used interface.		e ip address which use t	the purge route mo	de when access internet th	rough the specified
DMZ		interface:		WAND			
> Virtual Server		IP Range:					
> ALG > NAT Exclude IP	7	Apply Change	Reset				
> Port Trigger	_	Current N	WAN Interface		Low IP	High IP	Action
> FTP ALG Port							
> Nat IP Mapping							
 QoS Port Mappin 	9						
V Others							

NAT port trigger:

• Click **NAT Port Trigger** in the left pane. Port trigger is used to restrict certain types of data packets from your local network to the internet. Use of such filters can be helpful in securing and restricting your local network. In this page, you can configure the port trigger rules.

Status	Wizard	Setup		Service	Firew	ali M	aintenance		
▼ Route		Nat Port Trigge Entries in this table a of such filters can be	are used to restrict			r local network to lr	nternet through th	e Gateway. Use	
DMZ		Nat Port Trigger	•	○ Enable Disable					
> Virtual Server		Apply Changes	I						
> ALG		Application Type	e:						
> NAT Exclude IP		Usual Applic	cation Name:		Selec	t One	\checkmark		
> Port Trigger		O User-defined	Application Nam	ne:					
> FTP ALG Port									
> Nat IP Mapping		Start Match Port	End Match Port	Trigger Protocol	Start Relate Port	End Relate Port	Open Protocol	Nat Type	
				UDP 🔽			UDP 🔽	outgoing 🗸	
QoS				UDP 🗸			UDP 🔽	outgoing 🗸	
Port Mapping								outgoing 🗸	
Others				UDP 🗸			UDP 🗸	outgoing 🗸	
				UDP 🗸			UDP 🔽	outgoing 🗸	
				UDP 🗸				outgoing 🗸	
				UDP 🗸			UDP 🔽	outgoing 🗸	

- Nat Port Trigger: Enable or disable the port trigger function on the device.
- Application Type: You can select the service from the Usual Application Name or define the name from User-defined Application Name.
- Start Match Port / End Match port: The start and end port to match.
- **Trigger Protocol**: The protocol to trigger the rule. It can be **TCP**, **UDP** or **TCP/UDP**.
- Start Relate Port / End Relate Port: The start and end relate port.
- Open Protocol: It can be TCP, UDP or TCP/UDP.
- NAT Type: It can be outgoing or incoming.

FTP ALG configuration:

• Click **FTP ALG Port** in the left pane. In this page, you can configure the FTP server ALG and FTP client ALG ports.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
		FTP ALG Co	onfiguration			
V Route		This page is use	d to configure FTP Serve	r ALG and FTP Client	ALG ports .	
NAT		FTP ALG por	rt:			
> DMZ		Add Dest Por	ts Delete Selected	DestPort		
> Virtual Server			ports Table:			
> ALG		Select			Ports	
> NAT Exclude I	р	0			21	
> Port Trigger						
> FTP ALG Port						
> Nat IP Mapping]					
QoS						
Port Mappir	ng					
V Others						

• If the FTP server listens on port 2100, you can add a FTP ALG port 2100 on the device.

NAT IP mapping:

 Click Nat IP Mapping in the left pane. NAT IP mapping allows you to configure one IP pool for specified source IP address from LAN, so a packet whose source IP is in range of the specified address will select one IP address from pool for NAT.

Status	Wizard	Setup		Service	Firewall	Maintenance	
Route			ble allow you to config	one IP pool for specified one IP address from		lan,so one packet which's so	ource ip is in
DMZ		Type: One-					
> Virtual Server		Local End IF	201				
NAT Exclude If Port Trigger	2	Global Start Global End I					
FTP ALG Port Nat IP Mapping		Apply Chang	es Reset	able:			
QoS		Local S	Start IP Lo	ocal End IP	Global Start IP	Global End IP	Action
 Port Mappin Others 	9	Delete Select	ted Delete All				

- Type: The type of this mapping rule. It can be One-to-One, Many-to-One, Many-to-Many or One-to-Many.
 - **One-to-One**: One local IP will be mapped to one global IP.
 - Many-to-One: The IP between Local Start IP and Local End IP will be mapped to a global IP.
 - **Many-to-Many**: The IP between Local Start IP and Local End IP will be mapped to the IP between Global Start IP and Global End IP.
 - **One-to-Many**: One local IP will be mapped to any of the IP between Global Start IP and Global End IP.
- Local Start IP: A local IP address.
- Local End IP: A local IP address.
- Global Start IP: A global IP address used for NAT.
- Global End IP: A global IP address used for NAT.

QoS

Router provides a control mechanism which serves traffic with different priority. The traffic is classified by criteria. A classification rule contains three configuration blocks: Quality of Service (QoS) policy, schedule mode and traffic rule. The QoS policy enables you to classify packet on the basis of various fields in the packet. The schedule mode enables you to configure which priority queue you want to use. The traffic rule enables you to assign the precedence or add marker for different streams.

IP QoS:

• Click the **QoS** sub-menu in the left pane. The **IP QoS** page is opened automatically, where you can enable or disable the IP QoS and configure the rules if necessary.

Status Wizard	Setup Advanced	Service Firewall	Maintenance
	IP QoS		
Route	IP QoS:	O disable enable	
> QoS > QoS	Schedule Mode:	strict prior	
> Traffic Shaping	Apply		
	② QoS Rule List		
Port Mapping Others	src MAC dest MAC	src IP sPort dest IP	dPort proto phy port
- Ouldis	QoS Rule List(Continue)		
	IPP TOS DSCP	802.1p Prior IPP Mark TOS Mark	DSCP Mark 802.1p Mark sel
	Delete Add Rule		

- **IP QoS**: Enable or disable the IP QoS function on the device.
- Schedule Mode: The schedule mode of the IP QoS function. It can be strict prior or WFQ (4:3:2:1).
 - **Strict Prior**: Traffic with different priority will be sent by its priority. The higher priority the traffic is, the higher priority the traffic will be sent out.
 - WFQ (4:3:2:1): Traffic with different priority will be sent in proportion of its priority. The four priority traffic will be sent out in proportion to 4:3:2:1.

IP QoS traffic shaping:

• Click **Traffic Shaping** in the left pane. The tables in this page are used for traffic control. You can add traffic shaping rules in the list.

Status	Wizard	Setup			Service	e Fi	irewall	Mainten	ance	
		IP QoS Traf Entries in this tak	fic Shaping ble are used for tr	affic contro	ol.					
Route		Traffic S	haping in the n	etwork in	terface:					
D QoS		Total Band	lwidth(0, Unlimited	d):		U	P Stream 0	kbps		
> QoS						Dov	wn Stream 0	kbps		
Traffic Shaping	9	Apply								
Port Mappir	ng	Traffic S	haping Rule Lis	st						
V Others		ID Wan Itf Pr	rotocol Src Port	Dat Port	Src IP Dat		andwidth(Kbps)	Max Bandwidth(Kbps)		Remove
Vulers			Stocor Sic Port	Datroit	are in Dati	Up Floor	Down Floor	Up Ceiling	Down Ceiling	Remove
		Add Sav	ve/Apply							

Port mapping

The device provides multiple interface groups and supports up to five interface groups including one default group. Traffic coming from one interface of a group can only be flowed to the interfaces in the same interface group. Thus, the device can isolate traffic from group to group for some applications. By default, all the interfaces (LAN and WAN) belong to the default group, and the other four groups are all empty. It is possible to assign any interface to any group but only one group.

Port mapping configuration:

• Click the **Port Mapping** sub-menu in the left pane. The **Port Mapping Configuration** page is opened automatically, where you can configure the mapping group.

Status Wizard	Setup Advanced	Service Firewall Maintenance
 Route NAT QoS Port Mapping Port Mapping Others 	to manipulate the required mapping of the 3. Click "Apply Changes" button to save th	
	Select	Interfaces
	Default	LAN1,LAN2,LAN3,LAN4,WAND
	Group%d1 〇	

- To manipulate a mapping group:
 - 1. Select a group from the table, then you can see the available interface (LAN and WAN) and grouped interface list.
 - Select interfaces from the available and grouped interface list and add it to the interface group using the Add> button or delete it using the <Del button, in order to manipulate the required mapping of the ports.
 - 3. Click **Apply Changes** to finish the configuration.

Configure your router Advanced

Others

Bridge setting:

 Click the Others sub-menu in the left pane. The Bridge Setting page is opened automatically, where you can configure the bridge parameters and view the information on the bridge and its attached ports.
 Click the Show MACS button and you will see the current Forwarding Table

Click the **Show MACs** button and you will see the current Forwarding Table of the router.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	
V Route		Bridge Setti This page is used its attached ports	d to configure the bridge	parameters. Here you ca	an change the settings	s or view some information (on the bridge and
		Ageing Time:	c	300	(secor	nds)	
 QoS Port Mapping 		802.1d Spann	ning Tree:	 Dis 	abled O Enabled		
Others		Apply Change	es Undo Sho	ow MACs			
Bridge Setting							
> Client Limit							
> Telnet							

- **Ageing Time**: The time for the MAC address to age out. After the Ageing Time seconds of not having seen a frame coming from a certain address, the bridge will delete that address from the Forwarding Table.
- 802.1d Spanning Tree: Enable or disable the spanning tree protocol.

Client limit configuration:

 Click Client Limit in the left pane. In this page, you can enable or disable the client limit function and set the maximum number of device that can access the internet.

Status Wizard	i Setup	Advanced.	Service	Firewall	Maintenance	
		Configuration d to configure the ca	I pability of force how many	/ device can access to In	ternetl	
 Route NAT 	Client Limit	Capability:	O Disable	ble		
V QoS						
Port Mapping	Maximum De	evices:	4			
Others Bridge Setting	Apply Chang	es				
> Client Limit						
> Telnet						

- Client Limit Capability: Enable or disable the client limit function.
- **Maximum Devices**: The maximum number of devices can access to the Internet.

Configure your router Advanced

Telnet configuration:

• Click **Telnet** in the left pane. In this page, you can enable or disable the telnet function.

Status Wizard	Setup		Service	Firewall	Maintenance	
	Telnet Confi This page is used	guration	ction.			
Z Route						
NAT	Telnet:		Disable Denable	e		
💆 QoS	Apply Change	ae l				
Port Mapping	Apply chunge					
D Others						
> Bridge Setting						
> Client Limit						
> Teinet						

Choose the **Service** menu and you can see the next sub-menus: **IGMP**, **UPnP**, **DNS**, **DDNS** and **FTP Server**.

IGMP

IP hosts use Internet Group Management Protocol (IGMP) to report their multicast group memberships to neighbor routers. Similarly, multicast routers use IGMP to discover which of their hosts belong to multicast group. The router supports IGMP proxy that handles IGMP message. When enabled, the router will act as a proxy for a LAN host making request to join and leave multicast groups, and a multicast router sending multicast packets to multicast groups on WAN side.

IGMP proxy configuration:

Click the IGMP sub-menu in the left pane. The IGMP Proxy Configuration
page is opened automatically, where you can enable or disable the IGMP
proxy function on all WAN interface, and set the parameters of the IGMP
function.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
			Configuration			
IGMP		IGMP interfaces	The system acts as a pr	oxy for its hosts when y	ou enable it by doing	
IGMP Proxy			proxy on WAN interface (L on LAN interface (downstr			IGMP.
		IGMP Proxy		0	Disable Enable	
UPnP						
DNS		Multicast Al	lowed:	C	Disable Enable	
DDNS		Robust Cou	nt:	2		
FTP Server		Last Membe	r Query Count:	2		
		Query Interv	val:	6	0 (seconds)	
		Query Resp	onse Interval:	1	00 (*100ms)	
		Group Leave	e Delay:	2	000 (ms)	

UPnP

Universal Plug and Play networking protocol (UPnP) is a feature that requires the operating system to support the UPnP application. LAN hosts can request a specific port translation on router by UPnP, so the external hosts can access the resources on the internal hosts when needed.

UPnP configuration:

• Click the **UPnP** sub-menu in the left pane. The **UPnP Configuration** page is opened automatically, where you can configure the UPnP.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
		UPnP Conf This page is use	iguration ad to configure UPnP. The	system acts as a daemon	when you enable	UPnP.
D UPnP		UPnP:		O Disable	Enable	
> UPnP		WAN Interfa	ice:	V		
DNS DDNS FTP Server		Apply Chang	jes			

- **UPnP**: Enable or disable the UPnP function.
- WAN Interface: Choose which interface runs the UPnP function.

DNS

DNS configuration:

 Click the DNS sub-menu in the left pane. The DNS Configuration page is opened automatically, where you can configure the IP address of DNS server for DNS relay.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	
		DNS Config					
		This page is use	d to configure the DNS se	rver ip addresses for DI	NS Relay.		
UPnP		Attain DN	IS Automatically				
DNS		O Set DNS	Manually				
> DNS		DNS 1:	0.0.	0.0			
DDNS		DNS 2:					
FTP Server		DNS 3:					
		Apply Chang	es Reset Selected	1			

- Attain DNS Automatically: The device will use the DNS servers which are obtained by the WAN interface via the auto-configuration mechanism.
- Set DNS Manually: Configure the DNS IP address manually.

DDNS

Dynamic Domain Name Server (DDNS) allows you to point a hostname to a dynamic or static IP address or URL.

Dynamic DNS configuration:

 Click the DDNS sub-menu in the left pane. The Dynamic DNS Configuration page is opened automatically, where you can configure the DDNS settings.

Status Wizard	Setup	Advanced	Service	Firewall	Maintenance	•
V IGMP	Dynamic DNS This page is used Dynamic DNS.			rom DynDNS.org or TZO. H	ere you can Add/Rem	ove to configure
V UPnP V DNS	DDNS provide	r:	DynDNS.org			
DDNS	Hostname:					
> DDNS	Interface:		WAND 🗸			
FTP Server	Enable:					
	DynDns Settin	gs:				
	Username:					
	Password:					
	TZO Settings:					
	Email:					
	Key:					
	Add Remo	ove				
	Oynamic E	DDNS Table:				
	Select	State	Service	Hostname	Username	Interface

- **DDNS provider**: There are two DDNS providers to be selected in order to register your device: **DynDNS.org** and **TZO**.
- Hostname: Domain name to be registered with the DDNS server.
- Interface: The WAN interface over which your device will be accessed.
- Enable: Enable or disable the registration account for the DDNS server.
- **Username**: User name assigned by the DDNS provider.
- Password: Password assigned by the DDNS provider.

FTP server

• Click the **FTP server** sub-menu in the left pane. FTP server is used for the router's back-end firmware upgrade purpose only. By default, the **start** checkbox is checked. Do not change any setting in this page.

Status	Wizard	Setup	Advanced		Firewall	Maintenance
		FTP Server				
IGMP		✓ start		save		
UPnP		Start		save		
DNS						
DDNS						
FTP Server						
> FTP Server						

Choose the **Firewall** menu and you can see the next sub-menus: **MAC Filter**, **IP/Port Filter**, **URL Filter**, **ACL** and **DoS**.

MAC filter

In order to manage your local network better, you can use the MAC address filter function to control the internet access.

• Click the **MAC Filter** sub-menu in the left pane. In this page, you can set the MAC filtering rules.

vte	ch®						
Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	1
MAC Filter			le are used to restrict	certain types of data pack a or restricting your local n		ork to Internet through t	the Gateway. Use
MAC Filter		Outgoing Det	fault Policy	O Deny Allow			
IP/Port Filter		Incoming Del	ault Policy	○ Deny			
URL Filter		Apply					
DoS		Direction:		Outgoing 🗸			
		Action:		Deny O Allow			
		Source MAC:		(ex	. 00E086710502)		
		Destination N	IAC:	(ex	. 00E086710502)		
		Add					
		Current M	MAC Filter Table:				
		Select	Direction	Source MAC	Desti	nation MAC	Action
		Delete D	elete All				

- Outgoing/Incoming Default Policy: The default action of outgoing/ incoming connection. It can be Deny or Allow. If the connection does not match any MAC filtering rules, the router will handle the connection with the default action you have set.
- **Direction**: The direction of the filter entry. It can be **Outgoing** or **Incoming**.
- Action: The action of the filter entry. It can be **Deny** or **Allow**. If the action is **Deny**, the connection matches the filter rule will be denied; if the action is **Allow**, the connection matches the filter rule will be allowed.
- **Source MAC**: The source MAC address of the filter entry. An empty field means it matches any source MAC address.
- **Destination MAC**: The destination MAC address of the filter entry. An empty field means it matches any destination MAC address.
- The **Current MAC Filter Table** shows the current MAC filtering rules. You can delete the entry on the list.

IP/Port filter

IP/Port filtering:

• Click the **IP/Port Filter** sub-menu in the left pane. The **IP/Port Filtering** page is opened automatically, where you can set the IP/Port filter rules to secure or restrict your local network. The default actions of outgoing and incoming connection are shown on the top of the page.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	
MAC Filter			e are used to restrict	t certain types of dat ig or restricting your		twork to Internet through the C	Sateway. Use
IP/Port Filte IP/Port Filter	r	Outgoing Default Policy Incoming Default Policy		Permit D	1.7.1		
VRL Filter		Rule Action:	erm	nit O Deny			
DoS		WAN Interface	wano[~			
		Protocol: Direction:	IP Upstrea	am 🗸			
		Source IP Add	Iress:		Mask Address:	255.255.255.255	
		Dest IP Addre	ss:		Mask Address:	255.255.255.255	
		SPort: Enable:	V	-	DPort:	-	
		Apply Chang	es				
		Ourrent Financial States of Current Financial States of					
		Rule Wani	tf Protocol Sou	rce IP/Mask SI	Port Dest IP/Mask	DPort State Direc	tion Action

- **Rule Action**: The filter mode of this entry. It can be **Permit** or **Deny**. If the mode is **Permit**, the IP connection that matches the rule will be permitted; if the mode is **Deny**, the IP connection that matches the rule will be denied.
- **Protocol**: The protocol of this entry. It can be **IP**, **ICMP**, **TCP** or **UDP**.
- Direction: The direction of this entry. It can be Upstream or Downstream.
- Source IP Address/ Mask Address: The source IP address and mask address of the entry.
- Dest IP Address/ Mask Address: The destination IP address and mask address of the entry.
- **SPort**: If the protocol is TCP or UDP, you should set the source port of the entry. It can be a single port or a port range.
- **DPort**: If the protocol is TCP or UDP, you should set the destination port of the entry. It can be a single port or a port range.
- Enable: Enable or disable this filter entry.
- The Current Filter table shows the current filter rules. You can enable or disable or delete the filter entry.

URL filter

In order to manage the site control of your local LAN client, you can use the URL filtering function to specify which site(s) cannot be accessed.

• Click the **URL Filter** sub-menu in the left pane. In this page, you can enable or disable the URL filtering function and add or delete the filtered keywords.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	
MAC Filter	_		ng Configuratio d to configure the filter	n red keyword. Here you car	n add/delete filtered key	word.	
V IP/Port Filte	r	URL Blockin	g Capability:	Disable Enat	ble		
URL Filter URL Filter		Apply Chang	es				
		Keyword:					
V ACL		AddKeyword	Delete Selected	I Keyword			
		③ URL Blo	cking Table:				
		Select		F	Filtered Keyword		

- **URL Blocking Capability**: Enable or disable the URL filtering function. If it is enabled, the access to the site which matches the keyword will be blocked by the router; if it is disabled, nothing will be done.
- Keyword: The keyword of the site you want to block.
- The **URL Blocking Table** shows the current URL filtering entry. You can delete the selected entry.

ACL

The Access Control List (ACL) function is used to specify which services are accessible from LAN or WAN side.

ACL configuration:

• Click the ACL sub-menu in the left pane. The ACL Configuration page is opened automatically, where you can set the ACL entries.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	ŀ
MAC Filter		Entries in this A Gateway.	which services are acce CL table are used to per	mit certain types of data		network or Internet netwo	ork to the
VURL Filter		LAN ACL M	ode:	White List	(Black List	
> ACL		WAN ACL M	lode:	 White List 		D Black List	
v DoS		Direction Se	lect:	● LAN ○ WAN	N		
		LAN ACL SV	vitch:	Enable	C	Disable	
		IP Address: Services All	owed:		(The IP 0.0.0.0 represent	any IP)
		⊘ Any					
		Add					
		Ourrent	ACL Table:				

- LAN/WAN ACL Mode: Select White List or Black List for the LAN/WAN ACL Mode.
- Direction Select: The direction of this ACL entry. It can be LAN or WAN.
- LAN ACL Switch: You can enable or disable the ACL function on LAN side. If it is disabled, all hosts on LAN side can access the services which your router provide. If it is enabled, only the hosts on the ACL list can access the specify services.
- **IP Address**: The IP address of the host. If the IP is 0.0.0.0, it means any IP.
- Service Allowed (LAN side): The allowed services which the host can access. It can be any, or any specified service such as web, telnet, ssh, ftp, tftp and ping. If you select any, it means the host can access all the services the router provides.

DoS

A Denial-of-Service (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service. The router provides a protection of DoS attack.

DoS setting:

 Click the **DoS** sub-menu in the left pane. The **DoS setting** page is opened automatically, where you can enable or disable the DoS prevention, configure the DoS parameters and specify the hack item.

Status Wizard	Setup Advanced Service	Firewall Maintenance
	DoS Setting A "denial-of-service" (DoS) attack is characterized by an explicit at using that service.	tempt by hackers to prevent legitimate users of a service from
IP/Port Filter URL Filter	Enable DoS Prevention	
ACL Dos	Whole System Flood: SYN	100 Packets/Second
> DoS	Whole System Flood: FIN	100 Packets/Second
	Whole System Flood: UDP	100 Packets/Second
	Whole System Flood: ICMP	100 Packets/Second
	Per-Source IP Flood: SYN	100 Packets/Second
	Per-Source IP Flood: FIN	100 Packets/Second
	Per-Source IP Flood: UDP	100 Packets/Second
	Per-Source IP Flood: ICMP	100 Packets/Second
	TCP/UDP PortScan	Low Sensitivity
	ICMP Smurf	
	IP Land	
	IP Spoof	
	IP TearDrop	
	PingOfDeath	

Choose the **Maintenance** menu and you can see the next sub-menus: **Update**, **Password**, **Reboot**, **Time**, **Log** and **Diagnostics**.

Update

The router supports firmware upgrade from HTTP.

Upgrade firmware:

• Click the **Update** sub-menu in the left pane. The **Upgrade Firmware** page is opened automatically, where you can upgrade the firmware to the new version. Make sure the firmware or ROM file you want to use is on the local hard drive of your computer. Click **Browse** to find the local hard drive and locate the firmware or ROM file to be used for upgrade.

vte	ch°						
Status	Wizard	Setup	Advanced	Service	Firewall	Maimenance	
Update Firmware Upda Backup/Restore		because it may o	you upgrade the Router		n. Please note, do not p Browse	ower off the device during	the upload
Password Reboot Time Log Diagnostics		Upload	Reset				

- To upgrade the router's firmware:
 - 1. Download a more recent firmware upgrade file.
 - 2. Click the Browse... button.
 - 3. Choose the update file and click **Open**.

Desktop	Name					(
Downloads	1 Martin	Date modified	Туре	Size		
Downloads	BARDER PR Registr Installation Guide V	10/14/2015 PM 16:	InDesign Document	2,148 KB		
E Recent Places	and the logar contained back V.	10/14/2015 PM 16:	InDesign XML Inte	1,115 KB		
Desktop (2)	PROFESSION, No. 108, NO. 2010/0010-0-000	10/15/2015 PM 14:	InDesign Document	7,508 KB		
ATEL HAR	BARDER, P. Jonatation Look, V. McSon.	10/15/2015 PM 14:	InDesign Document	1,740 KB		
VTech models	District continued part	07/16/2015 AM 09	Adobe Acrobat D	2,264 KB		
🍌 My Skype Receiv	T DOLLAR	07/15/2015 PM 14:	Adobe Acrobat D	1,163 KB		
E	T Dittigati	07/15/2015 PM 14:	Adobe Acrobat D	1,100 KB		
libraries	Come in come als	01/10/2014 PM 18:	Microsoft Excel W	30 KB		
Documents	Part on State And	04/18/2013 PM 18:	Microsoft Word D	31 KB		
J Music	(a in the second ranks with its shake	04/19/2013 AM 10	Microsoft Excel W	39 KB		
Pictures	A to be the same ranks in the Road	04/25/2013 PM 16:	Microsoft Excel W	39 KB		
🛃 Videos	CA Dit CB veries busine 303 08.28 als	06/29/2013 PM 17:	Microsoft Excel W	40 KB		
	A Carlos Carlos testes Marin Marin	07/05/2013 PM 16:	Microsoft Excel W	40 KB		
Computer	(i) router.img	10/23/2015 PM 16:	Disc Image File	797 KB		
Local Disk (C:)	1 Longh sails Till making minute: N	05/02/2013 PM 17:	Microsoft Excel W	48 KB		
😽 Lenovo_Recovery 🗸	C viii.08, Trans.dox	11/06/2014 AM 04	Microsoft Office E	9 KB		

- 4. Click the **Upload** button.
- 5. A pop-up window will appear asking for confirmation of firmware upgrade. Click **OK** to proceed.

Message from	webpage	
? De	you really want to upgrade	the firmware?
	ОК	Cancel

6. After the firmware file is uploaded, the system starts a 30-second countdown and then reboots. You need to login to the web management page again.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance	J
		P.L.	ot System!				
> Update		Kebo	ot system:				
> Firmware Update	•	fire	nware upgrade! Sy	stem will reload so	on automaticly		
> Backup/Restore		Ple	ase Wait 24 s				
Password							
Reboot							
Time							
🔽 Log							
Diagnostics							

PNOTES

- After the firmware is upgraded, we recommend you reset the router to default settings.
- For the router's back-end firmware upgrade purpose, please make sure the FTP server option is enabled under the Service menu. See FTP server on page 36 for details.

Backup/restore settings:

• Click **Backup/Restore** in the left pane. In this page, you can save the current configuration settings to a file or restore the settings from a configuration file.

Status	Wizard	Setup	Advanced	Service	Firewall		1
Update		Once the router	store Settings is configured you can s onfiguration settings.	ave the configuration set	ttings to a configuration f	ile on your hard drive. You	also have the
 Firmware Update Backup/Restore 		Save Setting	gs to File:	Save			
Password		Load Setting	gs from File:		Browse	Upload	
Reboot							
Time							
🛛 Log							
Diagnostics	;						

- To back up the router's current settings:
 - 1. Click the Save... button.

800 🗸	• (

2. Click **Save** to save the file as the appointed file.

- To restore the router's current settings:
 - 1. Click the **Browse...** button.

Irganize 🔻 New folde	r				≡ ▼	
Favorites	Name	Date modified	Туре	Size		
Desktop	Ballins, PR, Suglish, Socialistics: Guide, V	10/14/2015 PM 16:	InDesign XML Inte	1,115 KB		
Downloads	BANKSON PR. CO. VI. DICTORY AND	10/15/2015 PM 14:	InDesign Document	7,508 KB		
Recent Places	BirthDod, PE, Journalistico, Guide, 15, 202324-	10/15/2015 PM 14:	InDesign Document	1,740 KB		
Desktop (2)	🔁 config.img	10/27/2015 AM 10	Disc Image File	23 KB		
Besktop (z)	This provide a second s	07/16/2015 AM 09	Adobe Acrobat D	2,264 KB		
VTech models	Contra pair	07/15/2015 PM 14:	Adobe Acrobat D	1,163 KB		
My Skype Receiv	Distinguit	07/15/2015 PM 14:	Adobe Acrobat D	1,100 KB		
5 My Skype Necelv	K Charles (18) and an also	01/10/2014 PM 18:	Microsoft Excel W	30 KB		
Libraries	(iii) Province, 201 (1999) 404	04/18/2013 PM 18:	Microsoft Word D	31 KB		
Documents	(a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	04/19/2013 AM 10	Microsoft Excel W	39 KB		
Music	A Caller II and the second second second	04/25/2013 PM 16:	Microsoft Excel W	39 KB		
Pictures	Calific and a state to the Alification of the	06/29/2013 PM 17:	Microsoft Excel W	40 KB		
Videos	Called States to be Milling and	07/05/2013 PM 16:	Microsoft Excel W	40 KB		
Videos	0	10/23/2015 PM 16:	Disc Image File	797 KB		
Computer	1 1	05/02/2013 PM 17:	Microsoft Excel W	48 KB		
Local Disk (C:)	8) v	11/06/2014 AM 04	Microsoft Office E	9 KB		
	me: config.img			- All	Files (*.*)	

- 2. Choose the file which you have saved and click **Open**.
- 3. Click Upload.

Status Wizard	Setup	Advanced	Service	Firewall	Maintenance	
> Update	Once the router	store Settings is configured you can s onfiguration settings.	save the configuration set	tings to a configuration f	ile on your hard drive. Y	ou also have the
Firmware Update Backup/Restore	Save Setting	gs to File:	Save			
Password	Load Setting	gs from File:	C:\Users\VTT08737\0	Desktop\Deskt Browse	Upload	
v Reboot						
V Log						
Diagnostics						

- 4. A pop-up window will appear asking for confirmation of restoring the settings. Click **OK** to proceed.
- 5. After the file is uploaded, the system starts a countdown and then reboots. You need to login to the web management page again.

Password

User account configuration:

 Click the Password sub-menu in the left pane. The User Account Configuration page is opened automatically, where you can add user account to access the web management page and modify the password of the specified user.

Status Wizard	Setup Advance	d Service Firewall	Maintenance
Vpdate	User Account Configura This page is used to add user acc	ation ount to access the web server of ADSL Router. Er	npty user name or password is not allowed.
Password	User Name:		
> Password	Privilege:	User	
🛛 Reboot	Old Password:		
💟 Time	New Password:		
🛛 Log	Confirm Password:		
Diagnostics	Add Modify Delete	Reset	
	() User Account Table:		
	Select	User Name	Privilege
	0	admin	root
	0	user	user

- To create an account:
 - 1. Type a user name in the **User Name** input box, then fill in the password in the **New Password** and **Confirm Password** input boxes.

Name:	user2	
rivilege:	User	
Old Password:		
New Password:	•••	
Confirm Password:	•••	

2. Click Add to create the new user account.

- To change the password of an account:
 - 1. Select an account which you want to change the password.

User Account Table:				
Select	User Name	Privilege		
0	admin	root		
۱	user	user		
0	user2	user		

2. Fill in the **Old Password**, **New Password** and **Confirm Password** input boxes, then click **Modify** to save it.

• If you login to the web management page by administrative account, you can change the password of all accounts. The default user name is **admin** and the password is **admin12345**.

Reboot

• Click the **Reboot** sub-menu in the left pane. In this page, you can reboot your system or restore the router to default settings.

Status	Wizard	Setup	Advanced	Service	Firewall	Mambenance
		Reboot				
Update		This page is used	d to reboot your system o	r restore to default settin	g.	
Password		Reboot	Restore to Default Sett	ling		
Reboot						
Reboot						
Time						
Log						
Diagnostics						

Time

Simple Network Timing Protocol (SNTP) is a protocol used to synchronize the system time with the public SNTP server.

System time configuration:

• Click the **Time** sub-menu in the left pane. The **System Time Configuration** page is opened automatically, where you can configure the system time.

Status Wizard	Setup A	Advanced Service Firewall Maintenance
Vpdate		nfiguration nfigure the system time and Network Time Protocol(NTP) server. Here you can change the settings or view e system time and NTP parameters.
Password Reboot	System Time:	2015 Year Aug V Month 25 Day 15 Hour 31 min 9 sec
Time Time	DayLight: Apply Changes	LocalTIME V
V Log	NTP Configuration:	
Diagnostics	State: Server:	Disable Enable
	Server2:	
	Interval: Time Zone:	Every 1 hours (GMT) Gambia, Liberia, Morocco, England
	GMT time:	- Tue Aug 25 15:31:9 2015
	Apply Changes	Reset
	NTP Start:	Get GMT Time

- Server/Server2: The IP address or the host name of the NTP server.
- Interval: The interval time of NTP function
- **Time Zone**: The time zone in which the device resides.
- When you set the NTP configuration correctly, press the button **Get GMT Time** to start the NTP function. Then, you can see the GMT time obtained from NTP server.

Log

Log setting:

• Click the **Log** sub-menu in the left pane. The **Log Setting** page is opened automatically, where you can configure the parameters of the system log and view the system log information.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
		Log Setting				
Update			d to display the syste ay the newest log info		checking Error or Notice (or	both)will set the log flag. By clicking the
Password		Error:			Notice:	
Reboot						
✓ Time		Apply Chang	es Reset			
Log > Log		Event log Ta	ble:			
		Save Log t	co File Clean Log	g Table		
Diagnostics		Old <<	< >	>> New		
		Т	ime Ir	ndex Type	L	og Information
		Page: 1/1				

Diagnostics

The router provides several useful diagnostic tools.

Ping diagnostic:

• Click the **Diagnostics** sub-menu in the left pane. The **Ping Diagnostic** page is opened automatically, where you can use the ping command to send a message to the host you specified.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
		Ping Diagno	ostic			
Update		Host:				
Password Reboot		Interface:		~		
☑ Time		PING				
✓ Log						
Diagnostics						
> Ping						
> Traceroute						
> Diag-Test						

Traceroute diagnostic:

The router provides a trace route command to measure the route path and transit time of packets across an Internet Protocol (IP) network.

• Click **Traceroute** in the left pane. In this page, you can specify an IP address or host to run trace route command.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
		Traceroute [Diagnostic			
Update		Host :			NumberOfTries :	3
Password Reboot		Timeout :	5000 ms		Datasize :	38 Bytes
🗹 Time		DSCP :	0		MaxHopCount :	30
🛛 Log		Interface :	any 🗸			
Diagnostics			Show Result			
> Ping		traceroute	Show Result			
> Traceroute						
> Diag-Test						

- Host: An IP address or host name you want to run trace route command.
- NumberofTriers: The number of try.
- Timeout: The time for the trace route command timeout.
- Datasize: Data size of the trace route packet.
- **DSCP**: The value of DSCP.
- MaxHopCount: The maximum hop count.
- Interface: The interface to which the trace route is to be applied.

Diagnostic test:

The Diagnostic Test allows you to test your DSL connection of the physical layer and protocol layer for both LAN and WAN sides.

• Click **Diag-Test** in the left pane. In this page, you can select an interface to run the diagnostic test.

Click the **Run Diagnostic Test** button to start the test. The test result will display after several minutes.

Status	Wizard	Setup	Advanced	Service	Firewall	Maintenance
Update						elow. If a test displays a fail status, click
 Password Reboot 		Select the Ir	nternet Connection: W		Run Diagnostic 1	est
Time						
🛛 Log						
Diagnostics						
> Ping						
> Traceroute						
> Diag-Test						

Appendix Frequently asked questions

Below are the questions most frequently asked about the router. If you cannot find the answer to your question, visit our website at husing approximate the provide at a set of the set of

businessphones.vtech.com or call 1 (888) 370-2006 for customer service.

My router does not work.

- Make sure you install the router properly, and the electrical outlet is not controlled by a wall switch.
- Make sure the router is powered on and the ${}^{\mbox{the}}$ light is on.

My router cannot load data from the Internet.

- Make sure you connect the **WAN** port properly. DO NOT mix up the **WAN** port with **LAN** ports.
- <u>Press and hold</u> the **RESET** button for five seconds, and then wait for a few minutes for the router to restart. Observe the **WAN** light, it flashes when the router receives data.

NOTE: After the router resets to default settings, use the default user name and password to login to the web management page.

- Disconnect the Ethernet cable from the router and connect it to a different router. If there is no signal on that router either, the problem is in your wiring or local service. Contact your Internet service provider.
- Your Ethernet cable might be defective. Try installing a new one.

How do I restore my router to its factory default settings?

• When the router is powered on, <u>press and hold</u> the **RESET** button for five seconds, and then wait for a few minutes for the router to restart.

What can I do if I forgot my password?

• Restore the router to factory default settings. Then, use the default user name and password to login to the web management page.

What can I do if my Ethernet devices cannot obtain IP addresses?

- Make sure you install the router and connect it with your Ethernet devices properly. See **Plan and connect your system** on pages 3-4 for details.
- If you have more than four Ethernet devices, reset the parent router by <u>pressing and holding</u> the **RESET** button for five seconds, and then wait for a few minutes for the router to restart. Next, reset the child router(s) by following the same procedure.
- If you have more than four Ethernet devices and you are using an existing non-VTech router as the parent router and VNT814 router(s) as the child router(s), check if the DHCP mode of the VNT814 router(s) is set to DHCP Relay on the web management page, and make sure the non-VTech router has the DHCP setting enabled. See DHCP mode on page 17 for more details.

Appendix FCC part 15

This equipment has been tested and found to comply with the requirements for a Class B digital device under Part 15 of the Federal Communications Commission (FCC) rules. These requirements are intended to provide reasonable protection against harmful interference in a residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian requirement:

CAN ICES-3 (B)/NMB-3(B)

Appendix For cETL compliance only

Mesures de sécurité importantes

Lorsque vous utilisez votre appareil, vous devriez toujours suivre certaines mesures de précaution de base afin de réduire les risques d'incendie, d'électrocution et de blessures corporelles, dont ceux qui suivent :

Information relative à la sécurité

- 1. Lisez et comprenez bien toutes les instructions.
- N'utilisez pas cet appareil près de l'eau ni de toute autre source d'humidité, par exemple, près d'une baignoire, cuve à lessive, évier de cuisine, dans un sous-sol humide ni près d'une piscine, dans un soussol humide ou une douche.
- 3. Ne déposez pas ce téléphone sur un chariot, support ou table chancelants. L'appareil pourrait tomber et être sérieusement endommagé.
- 4. MISE EN GARDE : N'utilisez que les adaptateurs inclus avec ce produit. L'utilisation d'un adaptateur dont la polarité ou la tension serait inadéquate risque d'endommager sérieusement le produit et mettre votre sécurité en péril. Adaptateur : Entrée 100-240V CA 200 mA 50/60 Hz: Sortie : 12 V CC 500 mA
- 5. Lorsqu'ils sont branchés dans une prise de courant, les adaptateurs secteur ont été conçus pour être orientés correctement, soit à la verticale ou au plancher. Les broches n'ont pas été conçues pour supporter le poids du bloc d'alimentation et le maintenir en place si celuici est branché dans une prise au plafond, sous une table ou dans un meuble.
- Pour les PRODUITS À BRANCHER À UNE PRISE DE COURANT, la prise de courant doit être installée près du produit, afin d'assurer une accessibilité sécuritaire à la prise de courant.
- 7. Débranchez ce produit de la prise de courant avant de procéder au nettoyage. N'utilisez pas de nettoyants en aérosols. Utilisez un chiffon humide pour le nettoyer.
- 8. Ne coupez pas les cordons d'alimentation pour remplacer les fiches, car ceci peut présenter un danger potentiel.
- 9. Ne laissez aucun objet reposer ni appuyer sur le cordon d'alimentation. N'installez pas cet appareil dans un endroit où l'on risque d'écraser le cordon d'alimentation ou de le piétiner.
- 10. Ne faites fonctionner cet appareil qu'avec le type d'alimentation indiqué sur l'étiquette. Si vous ne connaissez pas le type d'alimentation que vous possédez à votre domicile, consultez votre marchand ou votre compagnie locale d'électricité.
- 11. Ne surchargez pas les prises de courant murales ni les rallonges électriques.
- 12. Les trous et ouvertures du boîtier, situés à l'arrière de l'appareil ou sous celui-ci, servent à aérer l'appareil. Pour l'empêcher de surchauffer, ne bloquez sous aucun prétexte ces ouvertures et n'empêchez pas l'aération adéquate de l'appareil en le plaçant sur un lit, divan, tapis ou toute autre surface similaire. De même, ne le positionnez pas à proximité ni audessus d'une source de chaleur ou d'un calorifère. De plus, ne placez pas l'appareil dans un endroit avant de vous assurer qu'il y ait une bonne circulation d'air.
- 13. N'enfoncez jamais d'objets à travers les ouvertures de cet appareil, car ils pourraient entrer en contact avec des points de tension dangereux ou causer des courts-circuits qui peuvent dégénérer en incendies ou en risques d'électrocution. Ne renversez jamais de liquide dans ce produit.
- 14. Afin de réduire les risques d'électrocution, ne démontez pas cet appareil, mais apportez-le dans un centre de service autorisé. L'ouverture du boîtier ou le retrait de toutes pièces que contient cet appareil, à l'exception de l'accès autorisé à certaines portes ou ouvertures, risque de vous exposer à des points de tension dangereux ou d'autres dangers. Un remontage incorrect peut par la suite présenter des risques d'électrocution.
- 15. Examinez les composantes afin de vérifier si celles-ci ne sont pas endommagées.

CONSERVEZ CES INSTRUCTIONS

Appendix For cETL compliance only

Champs électromagnétiques (EMF)

Ce produit de VTech est conforme à toutes les normes se rapportant aux champs électromagnétiques (EMF) standard. Si vous le manipulez correctement en suivant les instructions de ce guide, son utilisation sera sécuritaire pendant de nombreuses années, selon les meilleures évidences scientifiques dont nous disposons aujourd'hui.

Appendix Limited warranty

1. What does this limited warranty cover?

The manufacturer of this VTech product warrants to the holder of a valid proof of purchase ("CONSUMER" or "you") that the product and all accessories provided in the sales package ("PRODUCT") are free from defects in material and workmanship, pursuant to the following terms and conditions, when installed and used normally and in accordance with the PRODUCT operating instructions. This limited warranty extends only to the CONSUMER for products purchased and used in the United States of America and Canada.

2. What will VTech do if the PRODUCT is not free from defects in materials and workmanship during the limited warranty period ("materially defective PRODUCT")?

During the limited warranty period, VTech's authorized service representative will repair or replace at VTech's option, without charge, a materially defective PRODUCT. If we repair the PRODUCT, we may use new or refurbished replacement parts. If we choose to replace the PRODUCT, we may replace it with a new or refurbished PRODUCT of the same or similar design. We will retain defective parts, modules, or equipment. Repair or replacement of the PRODUCT, at VTech's option, is your exclusive remedy. VTech will return repaired or replacement products to you in working condition. You should expect the repair or replacement to take approximately 30 days.

3. How long is the limited warranty period?

The limited warranty period for the PRODUCT extends for TWO (2) YEARS from the date of purchase. If VTech repairs or replaces a materially defective PRODUCT under the terms of this limited warranty, this limited warranty also applies to repaired or replacement PRODUCT for a period of either (a) 90 days from the date the repaired or replacement PRODUCT is shipped to you or (b) the time remaining on the original two-year limited warranty; whichever is longer.

4. What is not covered by this limited warranty?

This limited warranty does not cover:

- PRODUCT that has been subjected to misuse, accident, shipping or other physical damage, improper installation, abnormal operation or handling, neglect, inundation, fire, water, or other liquid intrusion; or
- PRODUCT that has been damaged due to repair, alteration, or modification by anyone other than an authorized service representative of VTech; or
- PRODUCT to the extent that the problem experienced is caused by signal conditions, network reliability or cable or antenna systems; or
- PRODUCT to the extent that the problem is caused by use with non-VTech accessories; or
- PRODUCT whose warranty/quality stickers, PRODUCT serial number plates or electronic serial numbers have been removed, altered or rendered illegible; or
- PRODUCT purchased, used, serviced, or shipped for repair from outside the United States of America or Canada, or used for commercial or institutional purposes (including but not limited to products used for rental purposes); or
- PRODUCT returned without a valid proof of purchase (see item 6 on the next page); or
- Charges for installation or setup, adjustment of customer controls, and installation or repair of systems outside the unit.

Appendix Limited warranty

5. How do you get warranty service?

To obtain warranty service, visit businessphones.vtech.com or call 1 (888) 370-2006.

NOTE: Before calling for service, please review the user's manual; a check of the PRODUCT's controls and features may save you a service call.

Except as provided by applicable law, you assume the risk of loss or damage during transit and transportation and are responsible for delivery or handling charges incurred in the transport of the PRODUCT(s) to the service location. VTech will return repaired or replaced PRODUCT under this limited warranty to you. Transportation, delivery or handling charges are prepaid. VTech assumes no risk for damage or loss of the PRODUCT in transit. If the PRODUCT failure is not covered by this limited warranty, or proof of purchase does not meet the terms of this limited warranty, VTech will notify you and will request that you authorize the cost of repair prior to any further repair activity. You must pay for the cost of repair and return shipping costs for the repair of products that are not covered by this limited warranty.

6. What must you return with the PRODUCT to get warranty service?

You must:

- Return the entire original package and contents including the PRODUCT to the VTech service location along with a description of the malfunction or difficulty; and
- Include a "valid proof of purchase" (sales receipt) identifying the PRODUCT purchased (PRODUCT model) and the date of purchase or receipt; and
- Provide your name, complete and correct mailing address, and telephone number.

7. Other limitations

This warranty is the complete and exclusive agreement between you and VTech. It supersedes all other written or oral communications related to this PRODUCT. VTech provides no other warranties for this PRODUCT. The warranty exclusively describes all of VTech's responsibilities regarding the PRODUCT. There are no other express warranties. No one is authorized to make modifications to this limited warranty and you should not rely on any such modification.

State/Provincial Law rights: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

Limitations: Implied warranties, including those of fitness for a particular purpose and merchantability (an unwritten warranty that the PRODUCT is fit for ordinary use) are limited to one year from date of purchase. Some states/provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no event shall VTech be liable for any indirect, special, incidental, consequential, or similar damages (including, but not limited to lost profits or revenue, inability to use the PRODUCT or other associated equipment, the cost of substitute equipment, and claims by third parties) resulting from the use of this PRODUCT. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Please retain your original sales receipt as proof of purchase.

Appendix Technical specifications

Operating temperature	34°F - 104°F 0°C - 40°C			
Power requirements	Input: 100-240V AC 50/60Hz Output: 12V DC 500mA			
Network Ethernet ports	10/100 Mbps RJ-45 Port			

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