NT3BB-4PWN

Quick Installation Guide

1 Introduction

The NT3BB-4PWN device is an ADSL access device that supports multiple line modes. With four 10/100Base-T Ethemet interfaces at the user end, it provides high-speed ADSL broadband connection to the Internet or Intranet for high-end users such as net cafes and office users. The device provides high performance access to the Internet with a downlink of 24 Mbps and an uplink of 1 Mbps. As a WLAN AP or WLAN router, the device supports WLAN access to the Internet. It complies with the IEEE 802.11b/g/n specifications, WEP, WPA and WPA2 security specifications.

2 System Requirements

Recommended system requirements are as follows:

- A 10/100 base-T Ethernet card is installed on your PC
- A hub or Switch. (connected to several PCs through one of Ethernet interfaces on the device)
- Operating system: Windows 98 SE, Windows 2000, Windows ME, Windows XP, Windows Vista, Windows 7
- Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

3 Hardware Installation

Step 1 Connect the DSL interface of the device and the Modern interface of the splitter through a telephone cable. Connect the phone to the Phone interface of the splitter through a cable. Connect the incoming line to the Line interface of the splitter.

The splitter has three interfaces:

- Line: Connect to a wall phone jack (RJ-11 jack).
- Modem: Connect to the ADSL jack of the device.
- Phone: Connect to a telephone set.

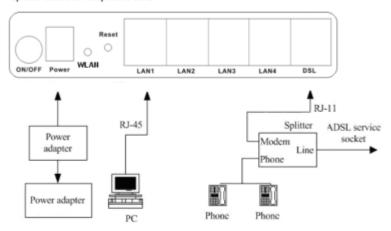
Step 2 Connect the LAN interface of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).

Note:

Use twisted-pair cables to connect with the hub or switch.

Step 3 Plug one end of the power adapter to the wall outlet and connect the other end to the Power interface of the device.

The following is the application diagram for the connection of the router, PC, splitter and the telephone sets.



The following table describes the interfaces of the device:

Items	Description	
0	Power switch for powering on/off the device.	
Power	Power interface for connecting to the power adapter.	
WLAN	Press the button gently and let go after 2 seconds to enable WLAN function.	
Reset	Reset to the factory defaults. To reset to the factory	

Items	Description			
	defaults, keep the device powered on and push a paper clip			
	in to the hole for over 3 seconds. Then release it, the			
	configuration is reset to the factory defaults.			
LAN1/2/3/4	RJ-45 interface for connecting to the Ethernet interface of			
LAN1/2/3/4	PC or other Ethernet devices through the Ethernet cable.			
DCI	RJ-11 interface for connecting to the ADSL interface or a			
DSL	splitter through the telephone cable.			

4 Web Configuration

4.1 Configuring IP Address of Network Card

Configure TCP/IP properties of your network card to **Obtain an IP address** automatically from modem, or set the IP address of the computer with the same network mask of the modem.

For example, if the IP address of Router is 10.0.0.2/255.255.255.0, you can set the IP address of the computer to 10.0.0.x/255.255.0. The range for x is from 3 to 254.

4.2 Accessing the Router

- Step 1 Open the Internet Explorer (IE) browser and enter http://192.168.1.1.
- Step 2 In the Login page that is displayed, enter the username and password.

 The username and password of the user are admin and 3bb.



After logging in to the DSL router as a super user, you will see the following interface. You can check, configure and modify all the settings.



Note:

In the Web configuration page, the settings can be saved permanently.

4.3 Internet Settings

Choose Interface Setup > Internet. Click Internet pane, the page shown in the following figure appears. In this page, you can configure WAN interface of your router.

Interface	Quick Start Internet	Interface Setup LAN	Advanced Setup Wireless	Access Management	Maintenance	Status	Help
ATM VC		Virtual Circuit Statua VPI	Activated	PVCs Summary Deactivated ps: 0-255)			
QoS		ATM GeS	UBR V	je: 1-65535)			
Encapsulation		SCR IIIBS	0 cels	second			
		82	O Static IP Add Static IP Add PPPoA.PPPo O Bridge Mode	iress E			
PPPoEIPPPoA			default@3bb				
Connection Setting			PPPoE LLC Activated 6				
			Connect Na Connect Na TCP MSS(0:defs	Demand (Close if idle	for 0 minutes)	
IP Address		Get P Address Itatic P Address P Subnet Maak Gateway NAT Defaut Route TCP MTU Option Dynamic Route	Static ● Cy 0.0.0 0.0.0 0.0.0 Enable ▼ ● Yes ○ No TCP MTU(0:defa	namic	×		

The following table describes the parameters of this page:

Field				es)	cription	n		
Virtual Circuit Y	ou	can	select	а	virtual	circuit	from	the

Field	Description
	drop-list. Click PVCs Summary you can view
	eight PVCs (from PVC0 to PVC7), and only
	PVC0 status is activated by default.
Status	You can select Activated or Deactivated for
Status	currently selected virtual circuit.
VPI	The virtual path between two points in an
VFI	ATM network, ranging from 0 to 255.
VCI	The virtual channel between two points in an
VCI	ATM network, ranging from 1 to 65535.
ATM QoS	Select the Quality of Service types for this
	Virtual Circuit. The ATM QoS types include
	CBR (Constant Bit Rate), VBR (Variable Bit
	Rate) and UBR (Unspecified Bit Rate). These
	QoS types are all controlled by the
	parameters specified below, including PCR,
	SCR and MBS. You can choose CBR, UBR,
	rt-VBR or nrt-VBR.
PCR	Peak cell rate (PCR) is the maximum rate at
	which cells can be transmitted along a
	connection in the ATM network.
SCR	Sustain cell rate (SCR) is the maximum rate
	that traffic can pass over PVC without the risk
	of cell loss.
MBS	Maximum burst size (MBS) is the maximum
	number of cells that can be transmitted at the
	PCR.
	You can choose Dynamic IP Address,
ISP	Static IP Address, PPPoA/PPPoE or
	Bridge Mode.

Select **PPPoA/PPPoE** in the **ISP** encapsulation if your ISP requires you to use a PPPoE connection. This option is typically used for DSL services. Select Dynamic PPPoE to obtain an IP address automatically for your PPPoE

connection. Select Static PPPoE to use a static IP address for your PPPoE connection. Please enter the information accordingly. Interface Setup Advanced Access Maintenance Status Help Interface ATM VC Virtual Circuit: PVCs PVCs Summery Status : Activated O Deactivated VPI: 0 (range: 0~255) VCI: 33 (range: 1-65535) QoS ATM QeS: UBR 💌 PCR: 0 cells/second SCR: 0 cells/second MBS: 0 cells ISP: O Dynamic IP Address Static IP Address

PPPoA/PPPoE O Bridge Mode PPPoEIPPPoA Servicename : Username : default@3bb Password : •••
Encapsulation : PPPoE LLC Bridge Interface : ○ Activated ③ Deactivated Connection:

Always On (Recommended) Connect On-Demand (Close if Idle for minutes) Connect Manually TCP HSS Option : TCP MSS(0:default) 0 bytes IP Address Get IP Address : Static ® Dynamic Static P Address : 0.0.0.0

P Subnet Mask : 0.0.0.0 Gateway : 0.0.0.0

NAT : Enable
Cefaut Route : Yes No

The following table describes the parameters of this page:

Field	Description
rieia	
Username	Enter the username for PPPoE dial-up, which
	is provided by your ISP.
Password	Enter the password for PPPoE dial-up, which
	is provided by your ISP.
Encapsulation	You can choose PPPoE LLC, PPPoE
	VC-Mux, PPPoA LLC or PPPoA VC-Mux.
Bridge Interface	You can choose Activated or Deactivated.
	You can choose Always On
Connection	(Recommended), Connect On-Demand or
	Connect Manually.
TCP MSS Option	You can set a tcp mss value. The range is
TOP MISS OPHION	from 100 to 1452. The default is 0.
Get IP Address	You can choose Static or Dynamic.
Static IP Address	You can enter the ip address for dial-up,
Static IP Address	which is provided by your ISP.
10.0	Enter the ip subnet mask for dial-up, which is
IP Subnet Mask	provided by your ISP.
	You can enter the gateway ip for dial-up,
Gateway	which is provided by your ISP.
	Select it to enable Network Address
	Translation (NAT) function. If you do not
	select it and you want to access the Internet
NAT	normally, you must add a route on the uplink
	equipment. Otherwise, the access to the
	Internet fails. Normally, it is enabled.
Default Route	You can enable or disable default route.
	You can set a TCP MTU value. The range is
TCP MTU Option	from 100 to 1500. The default is 0 .
Dynamic Route	You can select RIP1, RIP2-B or RIP2-M.
-	You can select None, Both, IN Only or OUT
Direction	Only.
	IGMP (Internet Group Multicast Protocol) is a
	session-layer protocol used to establish
Multicast	, ,
	membership in a multicast group. The ADSL
	Router supports IGMP version 1 (IGMP-v1),

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Field	Description	Γ
	IGMP-v2 and IGMP-v3 .Select Disabled to]
	disable it.	

After finishing, click SAVE to apply the settings of this PVC.

4.4 Wireless

Choose Interface Setup > Wireless. The page as shown in the following figure appears.

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Extension Channel	Secretary and the second secon
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MCS	
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550 Index	1 M
Sroadoan SSC	®Yes ○No
Use WPS	i ∵ O ves ® No
550	366-wien
Authentication Type	1 V/EP-84B0a . ₩
WEP	
WEP 64-one	For each key, please enter either (1) 5 characters excluding symbols, or (2) 10 characters properly from 5-5, a, b, c, d, c, 1.
WEP 128-ons	For each key, please enter either (1) 13 characters excluding symbols, or (2) 28
0	characters ranging from 019 a.c. c. e. r.
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The following table describes the parameters of this page:

Field	Description
Access Point	You may choose Activated or Deactivated.
Channel	Countries apply their own regulations to both the allowable channels, allowed users and maximum power levels within these frequency ranges. The default is 12.
Beacon Interval	Beacon Interval range is from 20 to 1000.
RTS/CTS Threshold	RTS/CTS Threshold range is from 1500 to 2347.
Fragmentation Threshold	Fragmentation Threshold range are only even numbers between 256 and 2346.
DTIM	DTIM range is from 1 to 255. A delivery traffic indication message is a kind of traffic indication message (TIM) which informs the clients of the presence of buffered multicast/broadcast data on the access point.
Wireless Mode	Comply with the IEEE 802.11b/g and IEEE802.11n standards. You can select 802.11b, 802.11g, 802.11b+g, 802.11n, 802.11g+n or 802.11b+g+n.
Channel Bandwidth	Supporting 20MHz/40MHz Dual Channel.
Extension Channel	You can set below the control channel or above the control channel.
Guard Interval	You can set 800 nsec or AUTO.
MCS	You can set an MCS index between 0 and 7, or select AUTO.
SSID index	Supporting only a root SSID to be modified
Broadcast SSID	Select whether the router broadcasts SSID or not. You can select Yes or No. Select Yes, and the wireless client searches the router through broadcasting SSID. Select No to hide SSID, and the wireless client can not search the SSID.
Use WPS	WPS technology allows new customers without a previously-established account to securely

Field	Description
	connect to your network at the Wi-Fi hotspot,
	create and pay for an account, and access the
	Internet.
	The service set identification (SSID) is a unique
SSID	name to identify the router in the wireless LAN.
	You may modify the SSID.
	You can set a type from Disabled, WEP-64Bits,
Authentication Type	WEP-128Bits, WPA-PSK, WPA2-PSK,
	WPA-PSK/WPA2-PSK.
	When WEP-64Bits is selected, enter 5 characters
	or 10 hexadecimal digits ("0-9", "A-F") preceded
Kev#1~4	by "0x" for each Key.
	When WEP -128Bits is selected, enter 13
	characters or 26 hexadecimal digits("0-9", "A-F")
	preceded by "0x" for each Key.
WDS Mode	Choose to enable or disable WDS (Wireless
TTDO INICAD	Distribution System).
Mac Address #1~4	Enter the MAC address of the opposite end.
Active	Activate or deactivated Wireless MAC Address
Activo	Filter.
	You can set Allow or Deny to make Wireless LAN
Action	station(s) association. This function can be used
Account	to allow or deny access to certain wireless clients
	based on their MAC Address.
Mac Address #1~8	You can set eight Mac Addresses at most.