

#### **Netween Router User Manual**

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#### Netween Router 1M LAN cable User Manual nemuleen **Power Adapter** 利用 LAND COLUMN Netween Router **Product Features** C140T Network Protocol Wireless -. PPPoE -. 802.11n(draft 2.0), 802.11b/g -. DHCP -. 1T1R -. Up to 300Mbps -. MAC cloning -. Port forwarding -. Multiple SSID -. QoS for MAC and IP -. SSID broadcast -. IGMP Proxy -. Auto transmission speed -. WDS Wireless bridge -. DDNS -. UPnP -. Wi-Fi Multi Media -. VPN Server -. Auto Channel Select -. WPS -. DMZ, Special DMZ -. OFDM, DSSS, MIMO -. NAT -. 2.4 Ghz **Specification** Security Others Wireless Interface IEEE802.11b/g/n (Draft 2.0) 384Mhz MIPS 34bit -. 64/128/WEP -. Login(ID/PW) WAN Interface 1 x 10/100Base-Tx, Auto MDI/MDIX -. WPA/WPA2, WPA-PSK/ -. Auto-Firmware upgrade WPA2-PSK(TKIP/AES) -. Remote Web management LAN Interface -. Hidden SSID

- -. System log -. WOL

Operating Temp. Tx Power **Rx** Sensitivity

CPU

Status LED

DRAM

FLASH

Power

Antenna

4 x 10/100Base-Tx, Auto MDI/MDIX Power, WLAN, WAN, LAN x 4, WPS 16Mbytes 4Mbytes Input : 100~240VAC, 50~60Hz Output : 5VDC, 2A 0~50℃ 14dBm ± 2dBm -65dBm @130Mbps -68dBm @54Mbps -84dBm @11Mbps 3 dBi x 2 antenna

-. Access Control List

-. Parent Control

-. Packet Filtering -. Web Contents/URL filter

# **Installation Precautions**

## Read the notes below before installing



The power adapter must be a standard adapter that is supplied with Netween adapter products.



Must seek professional help when product is damaged, please avoid further deteriorating or opening the case of the product.



Be careful not to drop or apply strong collision to the product.



Please avoid setting in places with direct sunlight, dust, excessive vibration or unstable places before and after you install the product.



If the exterior adapter devices of the Netween are cleaned with alcohol, benzene, acetone, etc. or any flammable liquids, this alteration to the surface will cause chemical changes. In case of contact with other material please wipe the area with a dry cloth.



The power being supplied must be stable. In the case of the power supply develops sparks or noises, a power control device must be installed.



Never touch the power supply area when the power cord is connected due to risks of electric shocks. When installing or moving the product, power switch must be turned off and all the connected cables must be unplugged.



Pay attention not to overload wiring connections when connected the power source.

- The information contained in this manuscript can be changed without agreement or separate notice of individual users.
- According to individual user's internet service provider's terms and regulations, some environmental constrains of the product performance and feature limitations may be encountered.
- We will not take responsibility of any line disability issues during usage of this product.

# **Product & Explaination**

## Front of the Netween



## Power / ON

Shows the power supply is normal



## WLAN / Flicker

Shows wireless is in operating conditions



## WPS / only flickers when activated

WPS supported devices and confirmation process is in progress



## WAN / Flicker

Shows external internet cable is connected and data communication is in progress

## 1234

## LAN /Flicker

PC and cable is connected and shows data communication is in progress

\* WPS (Wifi Protected Setup)

A feature to set up easily without complex security settings between adaptor and WPS function supported terminals. Back of the Netween



# **Netween Default Connection**

**General internet environment** 



## **Environment using a Modem**



## How to install

- 1. Connect the power supply adaptor to the router's body.
- 2. With modem methods, disconnect the LAN cable that is connected to the modem connected to the PC and connect it to the router (WAN port). When with modem doesn't have an optical LAN, separate the socket of the terminal from the PC and connect it to the router (WAN port). Make sure the LED of the (WAN) is working normally.
- 3. After turning on the PC, connect the LAN cable that is enclosed with the product to the PC and into 1 2 3 4, one of the LAN ports of the router. Make sure the LED of 1 2 3 4 are functioning.
- 4. Reboot the PC and see if the internet working

## Netween default set

#### Internet connection set

- If internet is automatically connected, internet can be used without additional connection settings

#### 1. Dynamic IP(DHCP)

Netween router is set to automatically receive IP method in default. Enter address <u>http://192.168.1.1-</u> Expert Setting- WAN Interface Setting

WAN Interface Settings

WAN Interface	Dynamic IP(DHCP)		
Connection Type			
IP Address	221.165.151.195		
Subnet Mask	255.255.255.0		
Gateway	221.165.151.1		
Packet MTU (byte)	1500 (Default: 1500. Do not modify it unless it is necessary.)		
Manually set the DNS se	rver		
DNS Server	168 126 63 1		
Secondary DNS Server	168 126 63 2 (Optional)		
Dotain the IP address in	the unicast mode (it is not recommended)		
	Save Cancel		
The state of the second state of the second			

#### 2. Static IP

Set when router is connected

 After accessing to 192.168.1.1 on the internet address bar, change the internet to (Static IP) from (Expert Setting)→ (Network Setting)
 → (WAN Interface Setting) and enter the given Static IP and click SAVE

		Harrison and Annual	-
Basic Setting	WAN Interface Settin	ngs	
Running Status WAN Interface Settings	In this page, you can set the ba	asic network parameters of the WAN interface.	
Wireless Settings Wireless Security Settings	WAN Interface Connection Type	atic IP	
Expert Setting	IP Address		
Network Settings	Subnet Mask		
Operating Mode	Gateway		
LAN Interface Settings	Packet MTU (byte)	1500 (Default: 1500. Do not modify it unless it is nece	issary.
WAN Interface Settings	DNS Server		
PPTP VPN SERVER MAC Address Cloning	Secondary DNS Server	Cotional)	
😔 Wireless Settings		Save Cancel	

2) Savings are completed when the screen turns white and back to its original form.

## 3. PPPoE (ADSL User)

## Set when router is connected

 After inserting internet access address 192.168.1.1 go to [Expert Setting]→[Network Sertting]
 →[WAN Interface Setting] and change the internet connection form to [PPPoE] and insert the user ID and password of the telecommunication company that you have signed up, click SAVE

<ul> <li>Basic Setting</li> </ul>	WAN Interface Settings		
Running Status	In this page, you can set the basic network parameters of the WAN interface.		
WAN Interface Settings Wireless Settings Wireless Security Settings	ViAN Interface Connection Type	PPIE V	
Expert Setting	PPPoE Connections		
Network Settings	Usemamé	poppe_user	
Operating Mode	Password		
LAN Interface Settings	Service Name:	(Optional)	
WAN Interface Settings	O Receive ISP's DAS	inally enter DVS	
PPTP VPN SERVER	DNS Server		
· Wreless Settings	Secondary DNS Server (Optional)		
OHCP Server	Packet MTU (byte) [1492 (Default 1492 Do not modify it unless it is necessary.)		
Forwarding Rule	Select the appropriate connect	Select the appropriate connection mode as required.	
homoorense	O Connect on Demand: Automatically connect when access traffic is detected		
Security Options	Auto Disconnect Waiting	Time 15 min (0 indicates not to automatically disconnect)	
Access Control	Auto: Automatically establish the connection while the device is rebooting or the connection is disconnected.     Scheduled: Automatically connect in a specified period		
Routing Settings			
IP Bandwidth Control	Note: When performing the timing connection function, click System Tools>Time Settings to set the current tim		

- 2) Savings are completed when the screen turns white and back to its original form.
- 3) After saving, confirm if the wired and wireless internet is working

## Wireless default setting and security setting

- Available change wireless router's name and setting type of encryption.
- You can choose type of encryption (Not Certification, WEP, WPA-PSK, WPA-PSK2, etc.)

## 1. How to setting wireless security

Available change Subsystem Identification 1) (Wireless router's name) to easy for remember.

Running Status	In this page, you can set the t	pasic network parameters of the wireless network of the router.
WAN Interface Settings		
Wireless Settings	Wireless Network	
Wireless Security Settings  Expert Setting	Wireless Status	wireless enable ○ wireless disable
		Display multiple SSID
Network Settings	SSID1	
Wireless Settings	53101	NetweeN Check Duplication Hidden Isolated
Basic Settings	Mode	11b/g/n mixed mode 💌
Wireless Security Settings Wireless MAC Address Filter Advanced Wireless Settings	Channel	6 Best Channel
	Broadcast Network Name (SSID)	Enable     Disable
Wireless Client List WPS Settings	MBSSID AP Isolation	○ Enable ④ Disable
WPS Settings WDS Settings	BSSID	00:25:A6:AB:4F:C0
DHCP Server	Frequency Bandwidth	O 20 @ 20/40
Forwarding Rule     Security Options	MCS	Auto
	Extension Channel	10 💌
Access Control		
Routing Settings		Save Cancel

## 2. How to check wireless security

1) You can choose type of encryption (Not Certification, WEP, WPA-PSK, WPA-PSK2, etc ).

Basic Setting	Wireless Security Settings		
Running Status WAN Interface Settings	In this page, you can set the security parameters of a wireless network. Select SSID		
Wireless Settings			
Wireless Security Settings	SSID	NetweeN 🛩	
Expert Setting			
Vetwork Settings	NetweeN		
	Security Mode	WPA-PSK/WPA2-PSK 💌	
Wireless Settings	WPA		
Basic Settings	WPA Algorithms	OTKIP OAES ⊚TKIP+AES	
Wireless Security Settings			
Wireless MAC Address Filter	Pass Phrase	12345678	
Advanced Wireless Settings	Key Renewal Interval	3600 seconds	
Wireless Client List			
WPS Settings		Save Cancel	
WDS Settings			



For your security, we suggest that change Subsystem Identification (Wireless router's name)

We suggest to you setting the encryption type security (WEP/WPA-PSK) Your valuable data(Password, Credit card number, Internet banking) When connect wireless LAN.

# **Firmware Upgrade**

- It is better to upgrade to the latest version periodically to increase function of Netween products.

## 1. Manual upgrade

- 1) Download the right firmware file as the router model through the homepage (<u>http://www.netween.co.kr</u>)
- 2) Click the left menu shown in the picture below
- 3) Click (Browse) and select the file that is downloaded
- 4) Click (Update)

5) It will take around 3 minutes for the firmware guide to be shown.

## 2. Automatic upgrade

- 1) Click (Update) next to auto FTP upgrade
- 2) Upgrade in progress
- 3) Due to overload of the server, the auto-upgrade process may not be smooth.
- Manual upgrade is recommended when autoupgrade cannot be processed.

<ul> <li>Basic Setting</li> </ul>	Software Update		
Running Status	Upgrade the Wireless routers Software to obtain new functionality.		
WAN Interface Settings Wireless Settings Wireless Security Settings	Current Hardware Version : 2.0 Current Software Version : 2.1 Upload the Software will takes about 3 minutes. Please keep power on and be patient during upgrading procedures.		
Sectors Setting	Caution! A compted image or power broken off during the upgrading will hang up the system. After finished the upgrade, the connections will be broke down when the system rebooting.		
	Software Update		
	Notice. After upgrade AP might lost its configurations. It is better to save your configuration to file before upgra		
· Setup Wizard	Location: Update		
<ul> <li>Software Upgrade</li> </ul>	Auto Upgrade		
· Logout	Auto FTP Upgrade: Update		
	10		
	12		

# Load Default Setting(RESET)

- Product will return to its initial settings as when was first manufactured.

After resetting, all settings will return to load default settings so user must set the settings again.



- 1. Connect the adapter to the router and check the status of the LED
- 2. There is a reset button at the back of the product.
- 3. By using objects that have a sharp point such as a pencil, press and hold the reset button for a while.
- 4. When the LEDs, except for the power switch, goes on again reset is completed.

## FCC ID: N7SC340T

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 equipment can generate, use and 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.

Caution: Any changes or modifications not expressily approved by the party responsible for compliance could void the users authority to operate the equipment.