

DRAFT

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Introduction

The Wireless Broadband Router has 10/100 Mbps LAN(x4) and WAN(x1), and also supports Wireless connecting. Especially, The Router provides Wireless 140Mbps Nitro XM(Xtrem Multimedia) technology with direct link feature allowing to communicate directly among each Wireless Adapters.

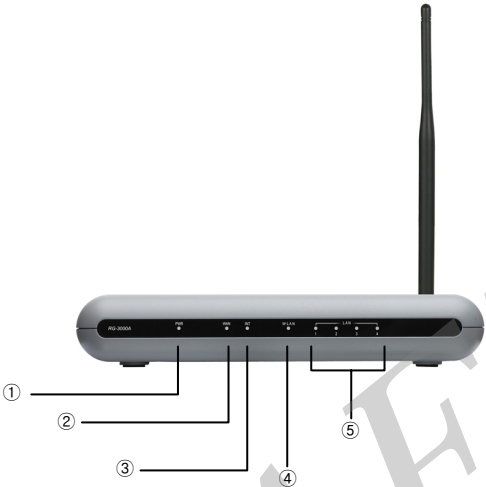
- 10/100Mbps WAN(x1) and 10/100Mbps Switch LAN(x4)
- WAN & LAN with Auto MDI/MDIX Crossover
- Nitro XM – 140Mbps, IEEE 802.11g – 54Mbps, IEEE 802.11b – 11Mbps
- WDS (Wireless Distribution System)
- WEP & WPA for (Wireless Security)
- ACL (Wireless LAN MAC Filtering)
- Port Forwarding or DMZ for Virtual Server
- Super DMZ & Real IP Forwarding for Real Server
- UPNP(Universal Plug and Play)
- Firewall based on IP, Mac Address, Port
- Dynamic DNS (dydns.org)
- Firmware Upgrade.

Specifications

Product Name	AnyGate RG-3000A
Power	DC 12V / 1A
Dimension	200 x 130 x 40 mm
WAN Interface	1 Port 10/100 Mbps UTP(CAT-5) / RJ-45
LAN Interface	4 Port 10/100 Mbps UTP(CAT-5) / Switch / RJ-45
Wireless Interface	IEEE 802.11g/b, Prism Nitro XM 2.4GHz
Working Temperature	0°C ~ 60°C
Working Humidity	10% ~ 50%

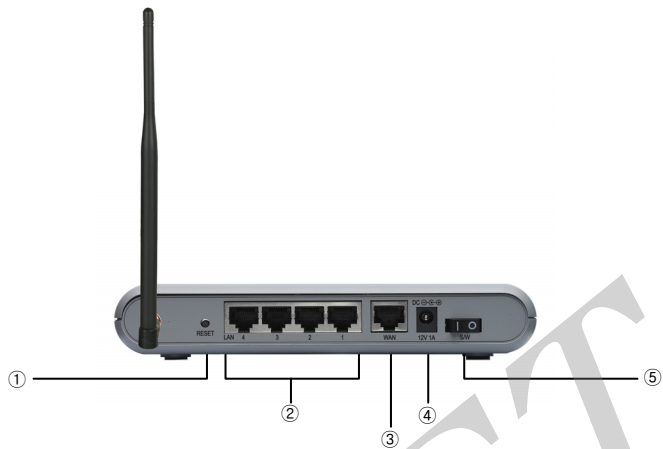
Product Overview

FRONT VIEW



① PWR	Power LED. LED is on when turn on the Router.
② WAN	WAN LED, LED is on when linking to DSL/Cable Modem.
③ INT	Internet connection LED. LED is on when the router connect to internet. WAN settings of the Router is needed. Blinking means data communication between the Router and internet.
④ W-LAN	Wireless LAN LED. LED is on when turning on the Router.
⑤ LAN 1/2/3/4	LAN LED, LED is on when the Router connect to NIC of LAN side PC with LAN cable. Blinking means data communications between the Router and LAN side PC.

BACK VIEW

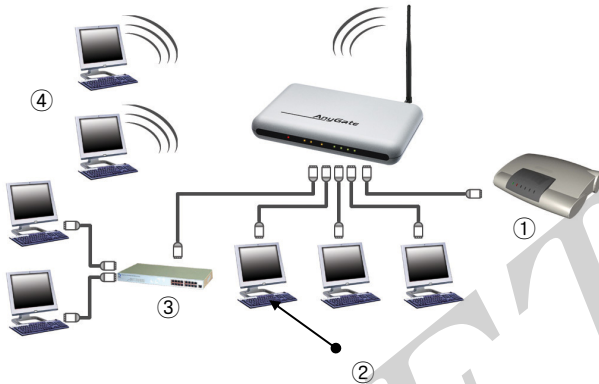


① RESET	Reset button.
② LAN 1/2/3/4	Connect to LAN side PC.
③ WAN	Connect to WAN side Modem.
④ DC	Connect Power Adapter
⑤ S/W	Power Switch

How to Reset

Turn off the power of the Router. Unplug the LAN and WAN cable. Turn on the Router in the meantime of pushing reset button with pencil or like.

1. Before Using, Settings



- ① ADSL/Cable Modem : Connect a LAN cable of Modem to WAN port of the Router.
- ② Wired LAN : Connect a LAN cable to LAN port between the Router and PC.
- ③ Hub : When need to connect 5 PC or more, extend network with Hub.
- ④ Wireless LAN : Wireless Adapter is needed. Compatible with IEEE 802.11b, 802.11g and Nitro XM.

- ✓ USB Modem or Internal ADSL Modem Is not compatible with the Router uses RG-45 UTP cable on both WAN and LAN side.
- ✓ In order to use wired LAN, NIC(Ethernet Adapter) is needed into PC. (PC side)
- ✓ In order to use wireless LAN, Wireless Adapter(IEEE 802.11b, IEEE 802.11g, Nitro XM) is needed. (PC side)

Standard Installation Procedure is as follows,

For more details, see each guide on this user guide.

1. Cable Settings
2. WAN Settings
3. Wireless Settings
4. The Other Your Preferable Settings

2. Cable Settings

2.1 WAN Connection

Connect a LAN Cable between ADSL/Cable Modem's LAN port and the Router's WAN port. If your Modem was already connected to PC via LAN cable, refer to use that original cable. The Router's WAN LED will be on.

2.2 LAN Connection

2.2.1 Wired LAN Connection

Connect a LAN cable between each PC's LAN port and the Router's LAN port. The Router's LAN LED will be on.

✓ Cable Type: the Router supports 'Auto MDI/MDIX Crossover' function, so both Direct and Cross LAN cable (RJ45 UTP) are all available.

2.2.2 Wireless LAN Connection

For wireless connection, your PC must need a wireless adapter supporting IEEE 802.11b, 802.11g, or Nitro XM. After installing wireless adapter, you can find the Router's SSID NAME "**AnyGate RG-3000A**" with using your wireless adapter's configuration utility. (In case of Windows XP, you can also use Windows XP's wireless zero configuration function.)

< Wireless Adapter's Configuration Utility >

See your wireless adapter's manual. Generally, a wireless adapter provides 'site survey function', which searches Access Point like AnyGate the Router around the wireless adapter.

In this case, Windows XP users have to disable 'Wireless Zero Configuration'

< Windows XP's Wireless Zero Configuration >

Windows XP itself provides wireless connection function named 'Wireless Zero Configuration' without additional wireless configuration utility.

In this case, Windows XP users have to enable 'Wireless Zero Configuration'

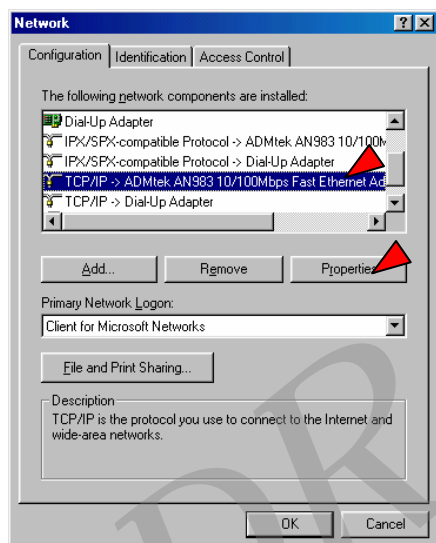
3. Computer Settings

Before setting the Router, make sure of your windows network settings referring to the following guide depending on each Widows platform.

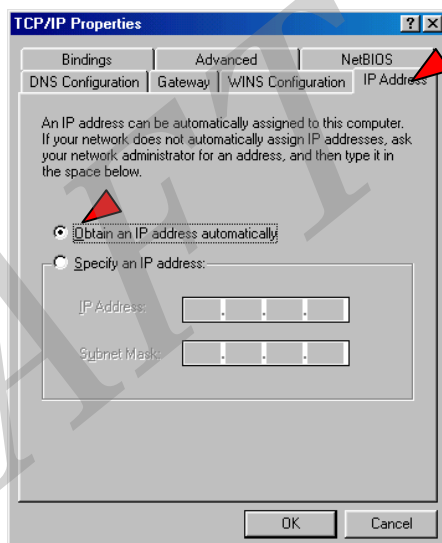
3.1 Windows 98/SE/ME

TCP/IP Configuration

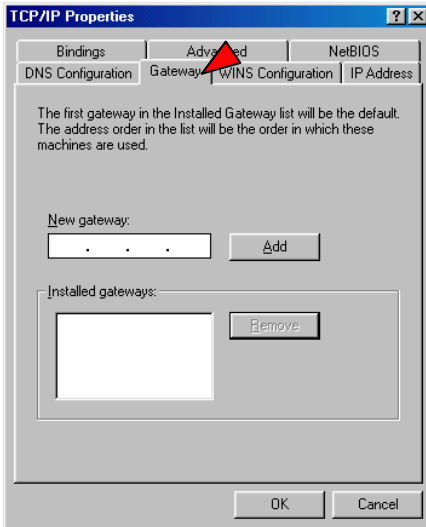
Go to [Control panel > Network], and double click 'TCP/IP->LAN card' that you want to use on your computer.



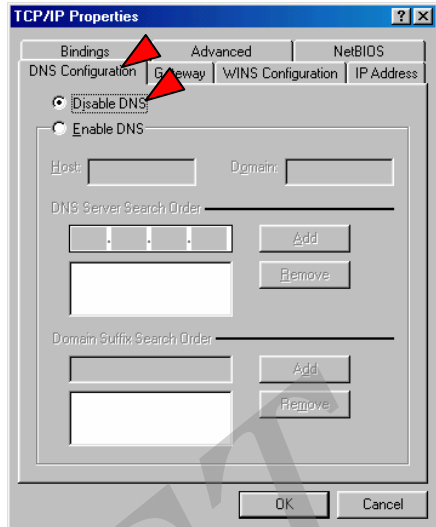
- ① Select 'TCP/IP > LAN card name' and then lick 'Properties'



- ② Select 'IP Address' TAB and check 'Obtain an IP address automatically'..

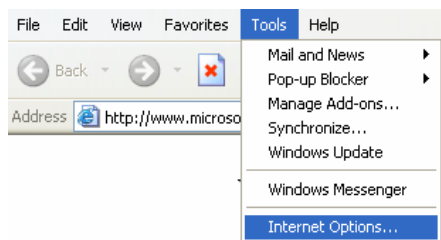


- ③ Select 'Gateway' TAB. If there is already 'installed gateway', remove it.

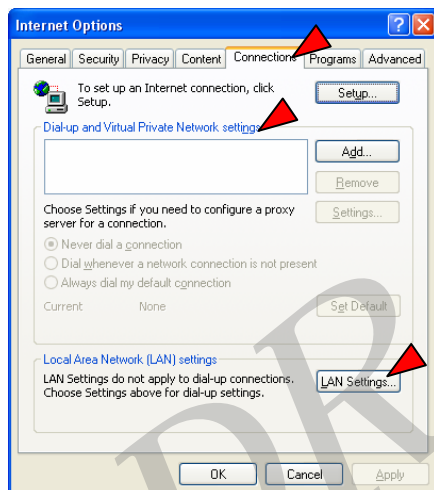


- ④ Select 'DNS Configuration' TAB, and then check 'Disable DNS'. Finally, click 'OK' and restart your PC.

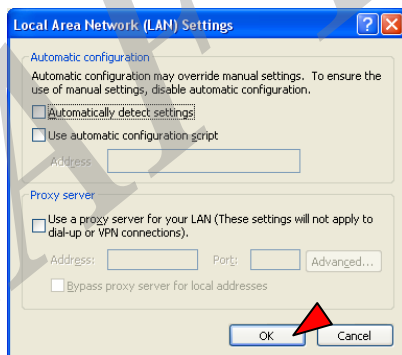
Internet Option Configuration



- ① Open your web browser and go to [Tools > Internet Options]

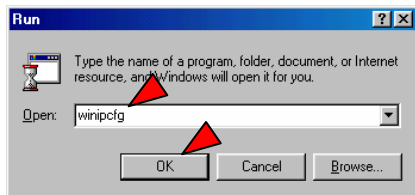


- ② Select 'Connections' TAB. If there is already a settings at 'Dial-up and Virtual Privates Network settings', remove it. And then, click 'LAN Settings'

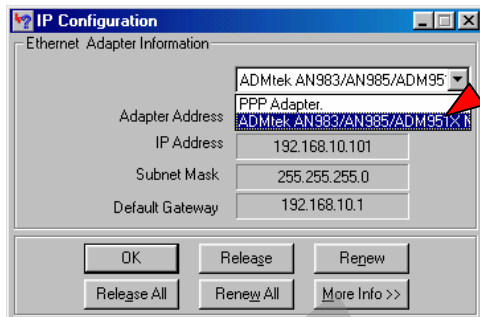


- ③ Do not check at 'Automatically detect settings', 'Use automatic configuration script', and 'Proxy server'. And then, click 'OK'

Check IP Address



① Go to [Start > Run]. Type '**winipcfg**' command, and click 'OK'



② Select your LAN card, not PPP adapter. Make sure the IP Address, Subnet Mask, and Default Gateway.

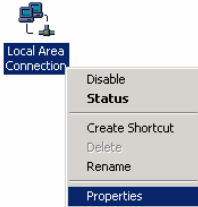
- IP Address : 192.168.10.100 ~ 192.168.10.200 [OK]
- Subnet Mask : 255.255.255.0 [OK]
- Default Gateway : 192.168.10.1 [OK]

✓ If there is abnormal values, click 'Release All' and 'Renew All'

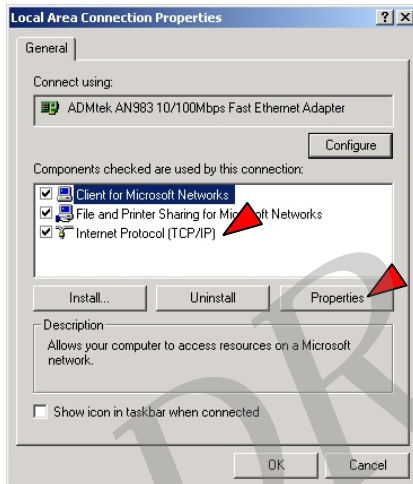
3.2 Windows 2000

TCP/IP Configuration

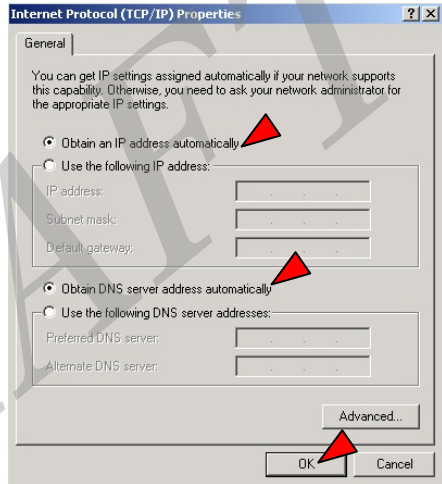
Go to [Start]→[Settings]→[Control Panel]→[Network (and Dial-Up) connections]→[Local Area Connection]→[Properties].



✓ If you see two or more 'Local area connections', select one that you will use for connecting to the Router.

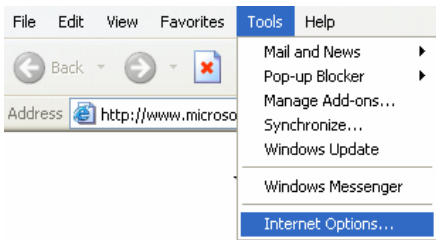


① Select [Internet Protocol (TCP/IP)]→Click [Properties].

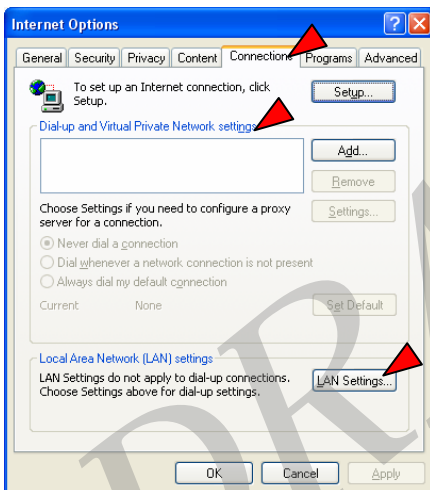


② Select [Obtain an IP address automatically], [Obtain DNS server address automatically], and then press [OK] button

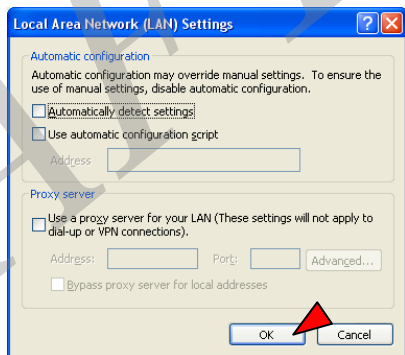
Internet Option Configuration



- ① Open your web browser and go to [Tools > Internet Options]

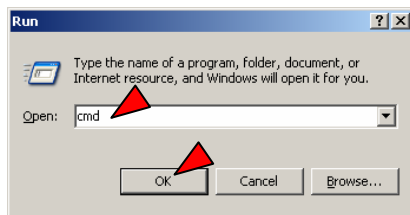


- ② Select 'Connections' TAB. If there is already a settings at 'Dial-up and Virtual Privates Network settings', remove it. And then, click 'LAN Settings'

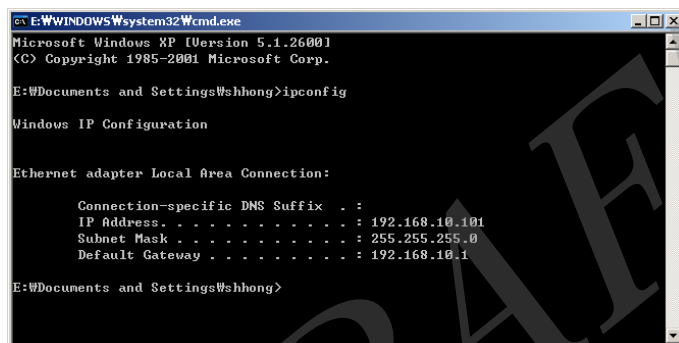


- ③ Do not check at 'Automatically detect settings', 'Use automatic configuration script', and 'Proxy server'. And then, click 'OK'

Check IP Address



- ① Go to [Start > Run]. Type '**cmd**' command, and click '**OK**'



- ② Type '**ipconfig**' command, and press '**Enter**' Key. Make sure the IP Address, Subnet Mask, and Default Gateway.

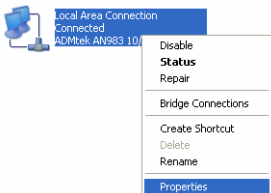
- IP Address : 192.168.10.100 ~ 192.168.10.200 [OK]
- Subnet Mask : 255.255.255.0 [OK]
- Default Gateway : 192.168.10.1 [OK]

✓ If there is abnormal values, do '**ipconfig /release**' command and then '**ipconfig /renew**' command.

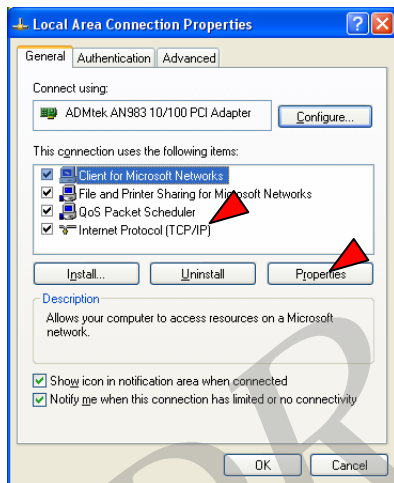
3.3 Windows XP

TCP/IP Configuration

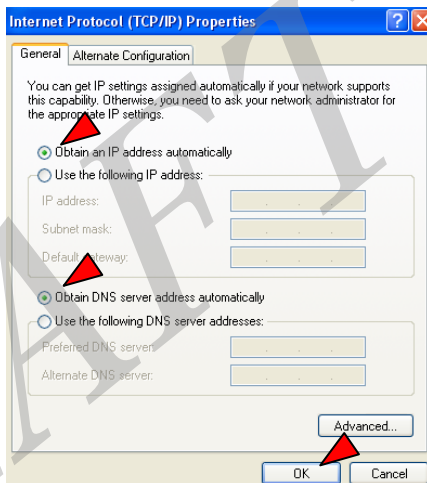
Go to [Control Panel>Network connections], and select 'Local area connections' properties by right click of mouse.



- ✓ If you can't find 'Administrative Tools' at Control Panel, click "Switch to classic view" in left-up corner on screen.
- ✓ If you see two or more 'Local area connections', select one that you will use for connecting to the Router.

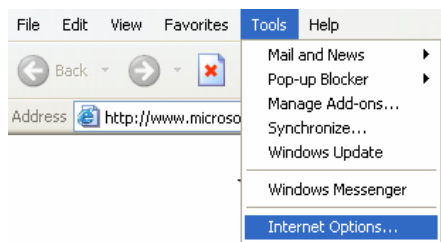


- ① Select [Internet Protocol (TCP/IP)]→Click [Properties].

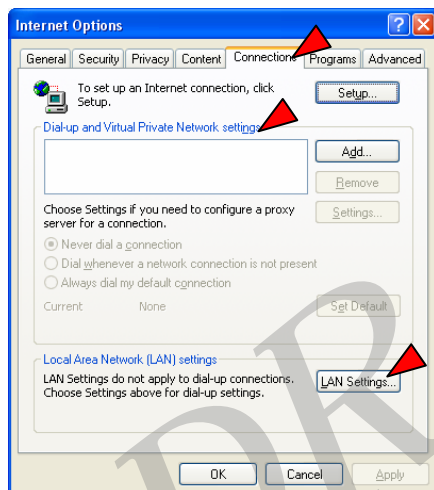


- ② Select [Obtain an IP address automatically], [Obtain DNS server address automatically], and then press [OK] button

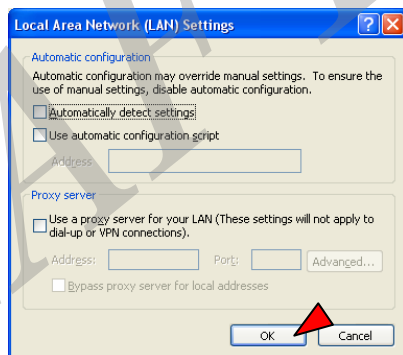
Internet Option Configuration



- ① Open your web browser and go to [Tools > Internet Options]

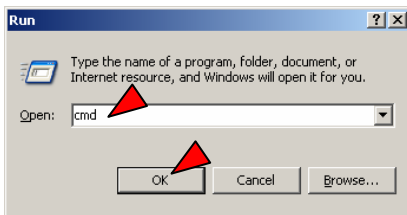


- ② Select 'Connections' TAB. If there is already a settings at 'Dial-up and Virtual Privates Network settings', remove it. And then, click 'LAN Settings'

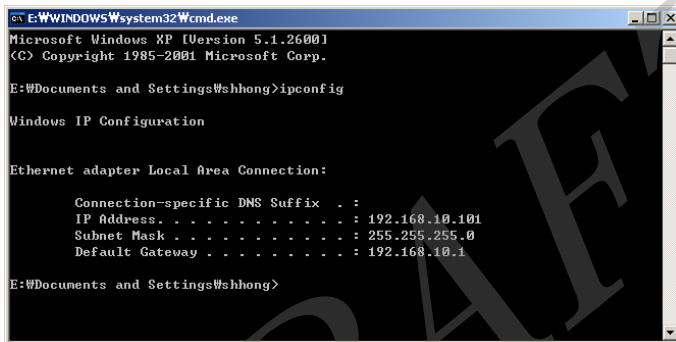


- ③ Do not check at 'Automatically detect settings', 'Use automatic configuration script', and 'Proxy server'. And then, click 'OK'

Check IP Address



- ① Go to [Start > Run]. Type 'cmd' command, and click 'OK'



- ② Type 'ipconfig' command, and press 'Enter' Key. Make sure the IP Address, Subnet Mask, and Default Gateway.

- IP Address : 192.168.10.100 ~ 192.168.10.200 [OK]
- Subnet Mask : 255.255.255.0 [OK]
- Default Gateway : 192.168.10.1 [OK]

✓ If there is abnormal values, do 'ipconfig /release' command and then 'ipconfig /renew' command.

4. Router Settings

Before Settings

Use your web browser in order to set the Router. Open your web browser and access to <http://192.168.10.1>. The Router Log-in screen will be opened., and enter password 'admin' After Log-in, Setup screen will be opened.



External IP	192.168.0.156
DNS Server	61.74.63.1 210.117.65.1
Connect Mode	Dynamic IP
Connect Status	CONNECTED
SSID	AnyGate RG-3000A
Channel	4 [2.427 GHz]
Wireless Security	Disable
Software Version	RG-3000A 1.10 Build at 2005/05/31-11:26

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✓WAN setting is needed for internet connection. If you can already access to internet in this step, no need WAN settings.

4.1 Basic Setup

4.1.1 LAN Setup

LAN setup is for network configuration between PCs and the Router. Basically, users don't have to change these settings. Users can change the Router's IP address and Subnet Mask, and also change DHCP settings. Basically, users don't have to change these settings. Users can change the Router's IP address and Subnet Mask, and also change DHCP settings.

IP Address	192	168	10	1				
Subnet Mask	255	255	255	0				
DHCP Server	☐ Disable ☒ Enable							
DHCP Address	192	168	10	100	192	168	10	200

[Screen Descriptions]

IP Address

IP address for the Router, as seen from the local LAN. Use the default value unless the address is already in use or your LAN is using a different IP address range. In the latter case, enter an unused IP Address from within the range used by your LAN.

Subnet Mask

The default value 255.255.255.0 is standard for small (class "C") networks. For other networks, use the Subnet Mask for the LAN segment to which the Router attached (the same value as the PCs on that LAN segment).

DHCP Server

What DHCP Does

A DHCP (Dynamic Host Configuration Protocol) Server allocates a valid IP address to a DHCP Client (PC or device) upon request.

- The client request is made when the client device starts up (boots).
- The DHCP Server provides the Gateway and DNS addresses to the client, as well as allocating an IP Address.
- The Router can act as a DHCP server.
- Windows 95/98/ME and other non-Server versions of Windows will act as a DHCP client. This is the default Windows setting for the TCP/IP network protocol. However, Windows uses the term Obtain an IP Address automatically instead of "DHCP Client".
- You must NOT have two (2) or more DHCP Servers on the same LAN segment. (If your LAN does not have other Routers, this means there must only be one (1) DHCP Server on your LAN.)

Using the Router's DHCP Server :

This is the default setting. The DHCP Server settings are on the LAN screen. On this screen, you can:

- Enable or Disable the Routers DHCP Server function.
- Set the range of IP Addresses allocated to PCs by the DHCP Server function.

[Button Descriptions]

OK : Save the data on screen.

RESET : discard any data you have entered and reload the file form the Router

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4.1.2 WAN Setup (Internet)

WAN Setup is for connecting internet. Check your current Internet service type, and choose one among the following 4 types. If you do not know your current service type, ask your ISP.

- ☒ Use Dynamic IP Address
- ☐ Use Static IP Address
- ☐ Use PPPoE
- ☐ Use PPTP

4.1.2.1 Use Dynamic IP Address

Wan Connect Type : Dynamic IP Address

Keep Connection ☐ Enable

Hostname (Optional)

DNS Server ☐ Static ☒ Dynamic

Primary DNS

Secondary DNS

MAC Address Setup

Current MAC Address 00:02:A8:09:4A:FB

MAC Address

Use Mac Address ☐ Use Manual Mac Address ☒ Use Default Mac Address

[Screen Descriptions]

Wan Connect Type : Dynamic IP address

Host Name :

Enter your host name like *my home* or *my office*(Optional)

Keep Connection :

This function uses when WAN side is dynamic connection. The Router send ARP packet to Gateway periodically for checking whether the WAN side is connected or not. When disconnecting, the Router will try to connect automatically.

DNS server / Primary DNS / Secondary DNS:

Default setup is Dynamic DNS Server (recommended). If you want to use any other specific DNS Server, you can select 'Static DNS Server'. After selecting 'Static DNS Server', enter 'primary DNS' and 'Secondary DNS' IP address which you want to use.

MAC Address Setup

Current MAC Address : the Router's MAC Address.

MAC Address / Use MAC Address :

This function allows you to use the other MAC address on LAN side PCs, not the Router's MAC Address. If your ISP request your LAN side PC's MAC address, you can clone PC's MAC Address from your PC with MAC Clone button. Configuration procedure is as follows.

1. Select **'Use Manual MAC Address'**

2. Click **'MAC Clone'** button; the button will copy the PC's MAC Address which is accessing to the Router

[Button Descriptions]

OK : Save the data on screen.

RESET : discard any data you have entered and reload the file form the Router

4.1.2.2 Static IP Address

Wan Connect Type : Static IP Address				
External IP	0	0	0	0
Subnet Mask	0	0	0	0
Gateway	0	0	0	0
Primary DNS	0	0	0	0
Secondary DNS	0	0	0	0

MAC Address Setup	
Current MAC Address	00:02:A8:09:4A:FB
MAC Address	00 00 00 00 00 00 MAC Clone
Use Mac Address	☐ Use Manual Mac Address ☒ Use Default Mac Address

OK RESET

[Screen Descriptions]

Wan Connect Type : Static IP Address

Enter the correct value provided from your ISP at each field: Static IP Address, Static Subnet Mask, Static Gateway, Primary DNS, and Secondary DNS.

MAC Address Setup

Current MAC Address : the Router's MAC Address.

MAC Address / Use MAC Address :

This function allows you to use the other MAC address on LAN side PCs, not the Router's MAC Address. If your ISP request your LAN side PC's MAC address, you can clone PC's MAC Address from your PC with MAC Clone button. Configuration procedure is as follows,

1. Select **'Use Manual MAC Address'**
2. Click **'MAC Clone'** button; the button will copy the PC's MAC Address which is accessing to the Router

[Button Descriptions]

OK : Save the data on screen.

RESET : discard any data you have entered and reload the file form the Router

4.1.2.3 Use PPPoE

Wan Connect Type : PPPoE

User ID

Password

Service Type

MTU

Idle Time Min.

Connection

DNS Server ☐ Static ☒ Dynamic

Primary DNS

Secondary DNS

MAC Address Setup

Current MAC Address 00:02:A8:09:4A:FB

MAC Address

Use Mac Address ☐ Use Manual Mac Address ☒ Use Default Mac Address

[Screen Descriptions]

Wan Connect Type : PPPoE

User ID / Password :

PPPoE Type requires ID & Password for internet connection. Enter 'User ID' and 'Password' which is provided from your ISP.

Service Type :

Enter your service type like PPPoE(Optional)

MTU :

MTU(Maximum Transmission Unit) value should only be changed if advised to do so by technical support. Default value is 1452(recommended).

Idle Time :

If the data traffic does not be activated for the idle time, the Router will disconnect WAN Connection.

Connection :

- Automatic Connect / Disconnect : The Router will try to connect WAN automatically when data traffic is activated after disconnecting due to idle time.
- Manual Connect / Disconnect : The Router will not try to connect WAN before clicking the Connect button on HOME screen. For disconnecting, click 'Disconnect' button manually.
- Keep Alive : The Router will try to connect WAN automatically whenever disconnecting.

DNS Server / Primary DNS / Secondary DNS

Default setup is Dynamic DNS Server (recommended). If you want to use any other specific DNS Server, you can select 'Static DNS Server'. After selecting 'Static DNS Server', enter 'primary DNS' and 'Secondary DNS' IP address which you want to use.

MAC Address Setup

Current MAC Address : the Router's MAC Address.

MAC Address / Use MAC Address :

This function allows you to use the other MAC address on LAN side PCs, not the Router's MAC Address. If your ISP request your LAN side PC's MAC address, you can clone PC's MAC Address from your PC with MAC Clone button. Configuration procedure is as follows,

1. Select '**Use Manual MAC Address**'
2. Click '**MAC Clone**' button; the button will copy the PC's MAC Address which is accessing to the Router

[Button Descriptions]

OK : Save the data on screen.

RESET : discard any data you have entered and reload the file form [the Router](#)

4.1.2.4 Use PPTP

Wan Connect Type : PPTP

User ID

Password

MTU

Idle Time Min.

Connection

PPTP IP Address ☐ Static ☒ Dynamic

IP Address

Subnet Mask

Server IP Address

DNS Server ☐ Static ☒ Dynamic

Primary DNS

Secondary DNS

MAC Address Setup

Current MAC Address 00:02:A8:09:4A:FB

MAC Address

Use Mac Address ☐ Use Manual Mac Address ☒ Use Default Mac Address

[Screen Descriptions]

Wan Connect Type : PPTP

User ID / Password

PPTP Type requires ID & Password for internet connection. Enter 'User ID' and 'Password' which is provided from your ISP.

MTU

MTU(Maximum Transmission Unit) value should only be changed if advised to do so by technical support. Default value is 1490(recommended).

Idle Time

If the data traffic does not be activated for the idle time, the Router will disconnect WAN Connection.

Connection

- Automatic Connect / Disconnect : The Router will try to connect WAN automatically when data traffic is activated after disconnecting due to idle time.
- Manual Connect / Disconnect : The Router will not try to connect WAN before clicking the Connect button on HOME screen. For disconnecting, click 'Disconnect' button manually.
- Keep Alive : The Router will try to connect WAN automatically whenever disconnecting.

PPTP IP Address / IP Address / Subnet Mask / Server IP Address

If PPTP modem uses static IP, select 'Static IP' and enter each field: IP Address, Subnet Mask, and Server IP Address.

DNS Server / Primary DNS / Secondary DNS

Default setup is Dynamic DNS Server (recommended). If you want to use any other specific DNS Server, you can select 'Static DNS Server'. After selecting 'Static DNS Server', enter 'primary DNS' and 'Secondary DNS' IP address which you want to use.

MAC Address Setup

Current MAC Address : the Router's MAC Address.

MAC Address / Use MAC Address :

This function allows you to use the other MAC address on LAN side PCs, not the Router's MAC Address. If your ISP request your LAN side PC's MAC address, you can clone PC's MAC Address from your PC with MAC Clone button. Configuration procedure is as follows,

1. Select '**Use Manual MAC Address**'
2. Click '**MAC Clone**' button; the button will copy the PC's MAC Address which is accessing to the Router

[Button Descriptions]

OK : Save the data on screen.

RESET : discard any data you have entered and reload the file from [the Router](#)

4.2 Wireless Setup

4.2.1 Basis Setup

Basic Setup | Wireless Security | ACL | WDS

Wireless Network

SSID: AnyGate RG-3000A

NAME: AnyGate Access Point

Auto Channel: ☒ Manual ☒ Auto channel

Channel: US [2.427 GHz]

Wireless Advanced Setup

Operation Mode: Mixed (B+G)

Nitro MODE: ☒ DirectLink ☒ Compression
☒ Concatenation ☒ Piggy-back ACK

MAX Frame Burst: 1400 [usec]

OK RESET

[Screen Descriptions]

Wireless Network

SSID

SSID is a network ID that access points & wireless devices are using. Only the wireless NIC and access point that are using the same SSID can be communicated each other. SSID can be composed of characters & numbers and the range is up to 30 digits. You can check SSID with using AP Scanning function on a wireless client NIC. Default SSID is 'AnyGate RG-3000A'.

NAME

Enter any name of the Router. It is not related to wireless network.

Auto Channel / Channel

If Auto Channel is enabled, just select the country out of channel country code. The Router will search and assign the proper channel automatically. If not, select 'Disable', and then country name and frequency.

Wireless Advanced Setup

Operation Mode

Select one wireless type among Mixed(B+G), G only, and B Only. B means IEEE 802.11b. and G means IEEE 802.11g.

Nitro MODE

Nitro mode provides 140Mbps wireless speed. For applying Nitro mode, Enable 'Direct Link', 'Compression', 'Concatenation', and 'Piggy-back ACK'. In addition, Wireless clients PC should be applied the same Nitro Mode option as above for wireless Nitro Communication.

MAX Frame Burst

The value should only be changed if advised to do so by technical support. Default value is 1400(recommended).

[Button Descriptions]

OK : Save the data on screen.

RESET : discard any data you have entered and reload the file from the Router

DRAFT

4.2.2 Wireless Security Setup

Basic Setup	Wireless Security	ACL	WDS
-------------	--------------------------	-----	-----

Security Rule	☐ Security Setup Disable ☒ Security Setup Enable
WPA	☒ Disable ☐ Enable
RADIUS Server Setup	☒ Disable ☐ Enable
RADIUS Server Setup	IP: Port:
Shared Secret	

Encryption Algorithm	☒ WEP ☐ TKIP ☐ AES
Authentication Type	☒ Open System ☐ Shared Key
WEP Type	☒ Static WEP ☐ Dynamic WEP
WEP Encryption Bits	☒ 64-bit WEP ☐ 128-bit WEP
WEP Key Generator	Passphrase Create
WEP Key Entry Mode	☒ Automatic ☐ Manual ☐ ASCII
☒ Key1	
☐ Key2	
☐ Key3	
☐ Key4	

WEP(Wired Equivalent Privacy) Security Type

Configuration procedure is as follows,

1. Select 'Security Setup Enable' at the Security Rule filed.
2. Select Open System or Shared Key. (Open System is recommended)
 - Open System : The Router will accept all un-encryption packets and a PC can access to the Router, but cannot access to the network. In order to using the network, The Router & Clients should use the same [WEP Key].
 - Shared System : The Router will throw all un-encryption packets away and a computer that want s to access to the Router should use the same [WEP Key].
3. Select 64-bit WEP or 128-bit WEP at the WEP Encryption Bits.
4. Create WEP key. Enter any characters at the Passphrase field.
5. Four WEP key will be generated. Select one WEP key.
6. Click OK button for saving configurations.

✓If the WEP Key is applied to the Router, wireless Client PC have to use same WEP key on Windows XP wireless settings or wireless LAN utility.

WPA (Wi-Fi Protected Access) PSK security

Configuration procedure is as follows, for example WPA PSK setting.

1. Select 'Wireless Setup Enable' at Security Rule filed.
2. Select WPA PSK at the Authentication Type field.

3. Select TKIP or AES at the Encryption Algorithm.
4. Enter any characters at the WPA Shared Key field.

✓If the WPA PSK is applied to the Router, wireless Client PC have to set the same Encryption Type(TKIP or AES) and WPA Shared Key. The following example is based on windows XP, which has to be updated latest version about wireless and security (SP2) sections.

- Make sure to check "use Windows to configure my wireless network settings"
- Select SSID(AnyGate RG-3000A) and click Properties button.
- Select Network Authentication Type and Data Encryption Type.

WPA RADIUS or RADIUS security

Configuration procedure is as follows,

1. Select WPA RADIUS or RADIUS at the Authentication Type field.
2. Select Encryption Algorithm.

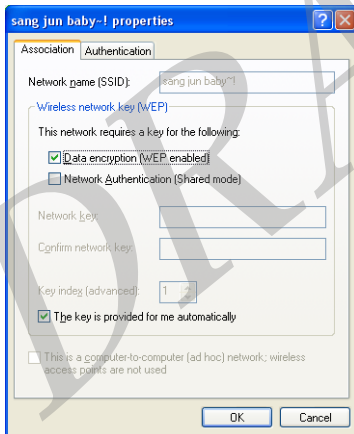
- WPA RADIUS : select WEP, TKIP or AES

In case of selecting WEP

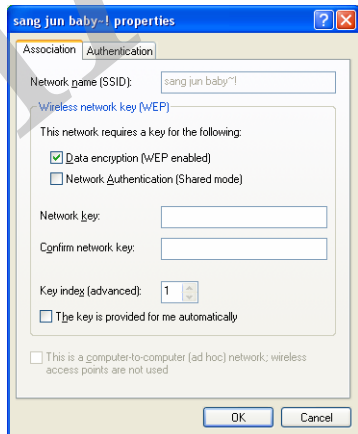
1) Static WEP or Dynamic WEP selection will be enabled.

> Static WEP : you have to enter the WEP key of the Router manually for wireless communication.

> Dynamic WEP : you don't have to enter the WEP key on the wireless client PC. In case of Windows XP, just select " The key is provided for me automatically" on windows wireless settings. The Router and wireless client PC will communicate automatically with the Router's WEP key.



In case of Dynamic WEP



In case of Static WEP

- 2) Select WEP Encryption Bits 64-bit WEP or 128-bit WEP
- 3) Enter RADIUS Server Port Address and Port number.
- 4) Enter Shared Secret for communicating between the Router and RADIUS Server.

5) Generate WEP Key and click OK button for saving configurations.

In case of selecting TKIP or AES

- 1) Enter WPA Shared Key that you want, which is for communicating between the Router and Wireless Client PC.
- 2) Enter RADIUS Server Address and Port number.
- 3) Enter Shared Secret that the RADIUS Server requests, which is for communicating between the Router and the RADIUS Server.
- 4) Click OK button for saving configurations.

RADIUS

- 1) Select WEP Encryption Algorithm.
- 2) Select WEP type – Static WEP or Dynamic WEP
- 3) Select WEP Encryption Bits – 64-bit WEP or 128-bit WEP.
- 4) Enter RADIUS Server Address and Port number.
- 5) Enter Shared Secret that the RADIUS Server requests, which is for communicating between the Router and the RADIUS Server.
- 6) Generate WEP Key and click OK button for saving configurations.

4.2.3 ACL

Basic Setup	Wireless Security	ACL	WDS
-------------	-------------------	------------	-----

Policy

☒ Open
 ☐ Allow
 ☐ Deny

Connected WLAN List

MAC Address Setup

: : : : :

ADD

* Maximum of 15

☐	No.	ON/OFF	MAC Address Setup

Apply

ON/OFF

EDIT

DEL

You can set the WLAN based filtering policy like Open, Allow, Deny.

- Open : Permits all computers to access to the Router on wireless.
- Allow: The computers which are registered can be connected to the Router on wireless.
- Deny: The computer which are registered are blocked to the Router on wireless.

Configuration Procedures is as follows,

1. Select the policy among Open, Allow, or Deny, and then click APPLY button.
2. Enter WLAN MAC Address at the field 'Hardware Address' and click ADD button.
3. Finally, click APPLY button for saving configurations.

"Connected WLAN List" shows the connected wireless LAN PCs' list.

[Button Descriptions]

- APPLY : Apply the configurations. (In order to save configurations, click SAVE button among left menu.)
- On/Off : Enable or disable the each setting value.
- EDIT : Edit the setting value.
- DEL : Delete the registered address.

4.2.4 WDS

Basic Setup

Wireless Security

ACL

WDS

MAC Address Setup

ADD

* Maximum of 4

☐

No.

ON/OFF

MAC Address Setup

Apply

ON/OFF

EDIT

DEL

WDS(Wireless Distributed System) allows to expand wireless range with wireless connection among Routers on one LAN segment.

Configurations procedure is as follows,

1. Enter Wireless LAN MAC Address of the Router for connection at MAC Address Setup field, and click ADD. All the Routers have to register the other Routers' WLAN Mac.
Register the other Router's MAC Address excluding MAC address of this Router.
2. Click APPLY button for saving configurations.

Where is Wireless LAN MAC address?

Go to Status page and check MAC Address of the Router. Register the MAC Address in MAC Address field on WDS page.

LAN Status	
IP Address	192.168.10.1
Subnet Mask	255.255.255.0
MAC Address	00:30:3f:50:96:d3

[Button Descriptions]

- **APPLY** : Apply the configurations. (In order to save configurations, click SAVE button among left menu.)
- **On/Off** : Enable or disable the each setting value.
- **EDIT** : Edit the setting value.
- **DEL** : Delete the registered address.

4.3 Advanced Setup

4.3.1 NAT Setup

4.3.1.1 Port Forwarding

NAT Setup | Security Setup | Routing Setup | Other Setup

Port Forwarding | DMZ Server | Non-Standard FTP | IP Forwarding | NAT-T

Service Port: [] [] [] [] PortAssistant

Protocol: TCP

Internal IP/Internal Port: [] [] [] [] Port [0] ADD

* Maximum of 60

☐	No.	ON/OFF	Service Port	Protocol	Internal IP	Internal Port

APPLY ON/OFF EDIT DEL

For using virtual server on LAN side, you have to open service port(or packet). The Port Forwarding allows to open specific port(or packet) which you register.

Configuration procedure is as follows,

1. Complete the Service Packet field

- Protocol : Select TCP or UDP
- Port : Enter service port of WAN side

2. Complete 'Internal IP / Inter Port' field

- IP Address : Enter the TCP/IP Address of LAN side Server.
- Port : Enter service port of LAN side.

3. Click ADD button for adding to the list box and finally click APPLY button for saving configurations.

[Button Descriptions]

- **APPLY** : Apply the configurations. (In order to save configurations, click SAVE button among left menu.)
- **On/Off** : Enable or disable the each setting value.
- **EDIT** : Edit the setting value.
- **DEL** : Delete the registered address.

4.3.1.2 DMZ Server

NAT Setup

Security Setup

Routing Setup

Other Setup

Port Forwarding | **DMZ Server** | Non-Standard FTP | IP Forwarding | NAT-T

☐ DMZ Enable
 ☐ Super DMZ Enable
 ☒ DMZ Disable

DMZ HOST IP Address

0

0

0

0

Super DMZ MAC Address

00

00

00

00

00

00

MAC Scan

OK

RESET

Screen Descriptions

DMZ

The PC on LAN side assigned as DMZ Server shall be forwarded to all the packets from real IP (WAN side). Virtual Sever can be used on the DMZ Server without Port Forwarding.

Configuration procedure is as follows,

1. Enter the TCP/IP address on a LAN side PC at the DMZ HOST IP Address field.
2. Check the 'DMZ Enable'
3. Finally, click OK button for saving configurations.

Super DMZ

The PC on LAN side assigned as Super DMZ Server shall get real IP (WAN side) acted as real server, virtual server.

Configuration procedure is as follows,

1. Check the 'Super DMZ Enable'
2. Enter the PC's MAC address at 'Super DMZ MAC Address' field, or Click 'MAC Scan' button, it will show the connected PCs' Host Name and MAC Address.
3. Finally, click OK button for saving configurations.

✓The Port Forwarding policy will be prior to the DMZ or Super DMZ policy.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file form the Router

4.3.1.3 Non-Standard FTP

The screenshot shows a web-based configuration interface. At the top, there are four tabs: 'NAT Setup' (highlighted in red), 'Security Setup', 'Routing Setup', and 'Other Setup'. Below the tabs is a breadcrumb trail: 'Port Forwarding | DMZ Server | Non-Standard FTP | IP Forwarding | NAT-T'. The main configuration area is titled 'Non-Standard FTP' and contains two radio buttons: 'Disable' and 'Enable' (which is selected). Below this, there is a row of five input fields for the 'Non-Standard FTP Port', each containing the number '0'. At the bottom of the form are two buttons: 'OK' and 'RESET'.

The feature allows to access to a remote FTP Server to WAN side using not standard 21 port but other port number like 2121.

Configuration procedure is as follows,

1. Check 'Enable' at Non-Standard FTP field.
2. Enter the port number of remote FTP Server at Non-Standard FTP Port field.
3. Finally, click OK button for saving configurations.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file form the Router

4.3.1.4 IP Forwarding

NAT Setup | Security Setup | Routing Setup | Other Setup

Port Forwarding | DMZ Server | Non-Standard FTP | **IP Forwarding** | NAT-T

MAC Address: [][][][] MAC Scan

Real IP Address: [][][][] ADD

* Maximum of 10

☐	No.	ON/OFF	MAC Address	Real IP Address

APPLY | ON/OFF | EDIT | DEL

If you have two or more static real IPs, one is for sharing IP and the other IPs are able to be assigned to the LAN side PCs. The PC applying IP Forwarding will act same as Super DMZ server. All the packet from the static real IP will be forwarded to the assigned PC

If you have extra static real IP (i.e. 123.1.1.2), Configuration procedure is as follows,

1. Enter the PC's MAC address at 'MAC Address' field, or Click 'MAC Scan' button, it will show the connected PCs' Host Name and MAC Address.
2. Enter the extra static real IP(123.1.1.2) at 'Real IP Address' field., and then click 'ADD' button.
3. Finally, click OK button for saving configurations.

✓ You have to use the feature when you have one or more extra static real IP. If you have just one static real IP, DMZ or Super DMZ feature is recommended.

[Button Descriptions]

- **APPLY** : Apply the configurations. (In order to save configurations, click SAVE button among left menu.)
- **On/Off** : Enable or disable the each setting value.
- **EDIT** : Edit the setting value.
- **DEL** : Delete the registered address.

4.3.1.5 NAT-T

NAT Setup | Security Setup | Routing Setup | Other Setup

Port Forwarding | DMZ Server | Non-Standard FTP | IP Forwarding | **NAT-T**

☒ IPSEC Pass-through
☒ PPTP Pass-through
☒ VoIP Pass-through

* When you apply the NAT service, configuration is saved and System is rebooted.

OK RESET

NAT Services

IPSEC/PPTP NAT Service

If you can not access external VPN Server using IPSEC/PPTP, enable or disable the IPSEC NAT/PPTP Service.

VoIP NAT Service

If you can not use VoIP Phone, enable or disable VoIP NAT Service.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file form the Router

4.3.2 Security Setup

4.3.2.1 Security Rule

NAT SetupSecurity SetupRouting SetupOther Setup

Security Rule | Firewall

PolicyDenyDirectionInt->ExtProtocolALL

Src

☒ IP Address

~Port

~

☐ MAC

MAC Scan(Only Int->Ext.)

☐ All IP

Port

~

Dst

☒ IP Address

~Port

~

☐ All IP

Port

~

PortAssistantADD

* Maximum of 30

☐ No. ON/OFF Policy Direction Protocol Rule

APPLYON/OFFEDITDEL

The feature allows to apply 'allow' or 'deny' communication policy between LAN side and WAN side.

Policy

Choose 'Allow' or 'Deny'

Direction

Choose 'Int -> Ext' or 'Ext->Int'

Int -> Ext : means communication direction from LAN side to WAN side.

Ext -> Int : means communication direction from WAN side to LAN side

Protocol

Choose 'ALL', 'TCP' or 'UDP'

Start

It is possible to set IP address range, specific MAC Address, or ALL IP. Choose one. If you want to use specific port, Choose TCP or UDP at Protocol.

Destination

38

It is possible to set IP address range, or ALL IP. Choose one. If you want to use specific port, Choose TCP or UDP at Protocol.

[Button Descriptions]

- **APPLY** : Apply the configurations. (In order to save configurations, click SAVE button among left menu.)
- **On/Off** : Enable or disable the each setting value.
- **EDIT** : Edit the setting value.
- **DEL** : Delete the registered address.

DRAFT

4.3.2.2 Firewall

NAT Setup

Security Setup

Routing Setup

Other Setup

Security Rule | Firewall

Ping Blocking	☒ Disable ☐ Enable
DoS Attack Blocking	☒ SYN Flooding
	☒ IP Source Routing Blocking
	☒ IP Spoofing Blocking
	☒ Smurf (Broadcast ping) Blocking

OK

RESET

Ping Blocking

The feature allows to block ping packet from WAN side.

DoS Attack Blocking

The feature allows to block DoS attack like SYN Flooding, IP Source Routing, IP Spoofing, and Smurf(Broadcat ping)

[Button Descriptions]

- OK : Save the data on screen.
- RESET : discard any data you have entered and reload the file form the Router

4.3.3 Routing Setup

NAT Setup

Security Setup

Routing Setup

Other Setup

Static Routing | Routing Table

Dst

IP : / Mask :

Gateway

IP :

ADD

* Maximum of 10

☐	No.	ON/OFF	Destination IP	Destination Mask	Gateway
--------------------------	-----	--------	----------------	------------------	---------

APPLY

ON/OFF

EDIT

DEL

This feature can make packet data that is bounding for a specific destination IP address go out through other gateways, not through The Router.

Configuration procedure is as follows,

1. Complete Destination Field.

- IP : Enter destination IP Address.
- Mask : Enter subnet mask of destination IP address.

2. Enter Gateway IP Address.

3. Finally, click APPLY button for saving configurations.

[Button Descriptions]

- **APPLY** : Apply the configurations. (In order to save configurations, click SAVE button among left menu.)
- **On/Off** : Enable or disable the each setting value.
- **EDIT** : Edit the setting value.
- **DEL** : Delete the registered address.

4.3.4 Other Setup

4.3.4.1 Remote Management

The screenshot shows a configuration window with tabs for NAT Setup, Security Setup, Routing Setup, and Other Setup. The 'Other Setup' tab is active. Below the tabs, there are links for Remote Management, DDNS, TIME Server, Web Redirect, Wake On LAN, and UPNP. The 'Remote Management' section has two radio buttons: 'Disable' and 'Enable (Port to use : 8888)'. The 'Enable' option is selected. At the bottom, there are 'OK' and 'RESET' buttons.

You can access to the Router on internet (WAN side), default port is 8888, and you can change the port number.

[How to remote access]

First of all, check the WAN IP address on HOME screen. Make access to the <http://WAN IP Address: port number>. For example, If it is assumed WAN IP Address 211.207.83.10 and port number 8888, access to the <http://211.207.83.10:8888>. You can see the login window.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file form the Router

4.3.4.2 DDNS

The screenshot shows a web management interface with tabs for NAT Setup, Security Setup, Routing Setup, and Other Setup. The 'Other Setup' tab is active, displaying a sub-menu with Remote Management, DDNS, TIME Server, Web Redirect, Wake On LAN, and UPNP. The 'Dynamic DNS' section is expanded, showing options to 'Disabled' or 'Enable' the service. The 'Enable' option is selected. Below this, the 'DDNS Service' is set to 'dydns.org'. There are input fields for 'Account', 'Password', and 'Host Domain'. A 'Whildcard' checkbox is present and unchecked. A 'DDNS Register' button is located to the right of the input fields. At the bottom, there are 'OK' and 'RESET' buttons.

When you use dynamic IP address (not static IP address) from your ISP, the feature allows to match the dynamic IP address to specific domain. So, you don't have to check WAN IP address when accessing to Server on LAN side PC. You can operate Server on LAN side PC with this domain, not dynamic IP address.

Configuration procedure is as follows,

1. Create and register your account at <http://www.dydns.org>.

When you create your account, you will get a confirm e-mail from dydns.org. After e-mail confirmation, the account registration will be finished.

And then, Go to 'Services > Dynamic DNS > Add Dynamic DNS on the web page. Register your domain that you want to use.

2. Register your account at the Router.

Check 'Enable', and then enter your Account, Password, and Host Domain.

What is Whildcard?

When you use your registered Host domain (i.e. yoon), you can use any character in front of the domain.

For example, it is possible to access to following domain.

Default > <http://yoon.dydns.org.tv>

When Whildcard applied : <http://abcd.yoon.dydns.org.tv> or <http://my.yoon.dydns.org.tv> or etc.

Check to match WAN IP address to Domain

Open 'Command prompt' on Windows, and test with 'Ping' command.

For example, 'Ping yoon.dydns.org.tv' you can see IP address. The IP address is same as WAN IP address.

4.3.4.3 Time Server

NAT SetupSecurity SetupRouting SetupOther Setup

Remote Management | DDNS | TIME Server | Web Redirect | Wake On LAN | UPNP

Daylight Saving Time

☒ Disable ☐ Enable

Standard Timezone

(GMT -08:00) Pacific Standard (USA and Canada)

Time Server

time.bora.net

OK

RESET

The feature allows to apply 'Daylight Saving Time', and change Standard Time Zone and Time Server.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file form the Router

4.3.4.4 WEB Redirect

NAT Setup | Security Setup | Routing Setup | **Other Setup**

Remote Management | DDNS | TIME Server | **Web Redirect** | Wake On LAN | UPNP

Web Redirect ☐ Disable ☒ Enable

OK RESET

The feature allows to redirect the Router's setting screen in case of internet disconnection. Enable is recommended.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file form the Router

4.3.4.5 Wake On LAN

NAT Setup

Security Setup

Routing Setup

Other Setup

Remote Management | DDNS | TIME Server | Web Redirect | Wake On LAN | UPNP

Hardware Address of Host to wake up	00	00	00	00	00	00	ON	MAC Scan
	00	00	00	00	00	00	ON	MAC Scan
	00	00	00	00	00	00	ON	MAC Scan
	00	00	00	00	00	00	ON	MAC Scan

The feature allows to boot the registered PC on LAN side

✓The NIC(Network Interface Card) of the registered PC must support WOL function, and the registered PC's Mainboard also must do.. If two conditions are satisfied, enable WOL function on Bios Setup of Mainboard.

Configuration procedure is as follows,

1. Register the MAC Address of NIC.
- Automatic registration : Access to the Router from LAN side PC and click Mac Scan button. The access PC's Mac address will be registered automatically.

● Manual registration : Check the MAC address and enter the address manually
2. Click On button for saving configurations.

How to boot the registered PC

1. Access to the Router on LAN side or WAN side.
2. Choose a Mac Address among the registered address and click ON button.

4.3.4.6 UPNP

NAT Setup | Security Setup | Routing Setup | **Other Setup**

Remote Management | DDNS | TIME Server | Web Redirect | Wake On LAN | **UPNP**

UPNP Service ☐ Disable ☒ Enable

OK RESET

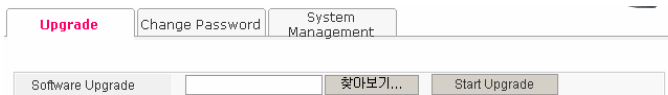
The feature is for Microsoft's UPNP, and especially allows to use MSN messengers full function like file transfer, remote administration, or etc. Enable is recommended.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file form the Router

4.4 System Setup

4.4.1 Upgrade



It is possible to upgrade the firmware of the Router for enhancing performance or adding functions.

Upgrade procedure is as follows,

1. Download upgrade file on your local distributor's website, and save the file on your local PC on LAN side.
2. Access to the Router <http://192.168.10.1> and click Search button. Browse the upgrade file at the destination directory.
3. After selecting the upgrade file, and then click Start Upgrade button. Upgrade will be progressed a

4.4.2 Change Password

Upgrade	Change Password	System Management
---------	------------------------	-------------------

Current Password	
New Password	
Confirm Password	

OK	RESET
----	-------

The feature allows to change password for accessing to the Router's configurations screen. Complete each field and click OK button for saving configurations.

[Button Descriptions]

- **OK** : Save the data on screen.
- **RESET** : discard any data you have entered and reload the file from the Router

4.4.3 System Management

Upgrade

Change Password

System Management

Save configuration in file

SAVE

Configuration Restore

찾아보기...

Apply the configuration file

Restart System

RESTART

System Initialize

Initialize

Save configuration in file

The feature allows to save the current configuration value of the Router in file on local PC on LAN side.

Configuration Restore

The feature allows restoring the saved configuration file. Click 'Search' button and browse the file and then 'Apply the configuration file'.

Restart System

The feature allows restarting the Router.

System Initialize

The feature allows deleting current settings and returning to default value of the Router

4.5 Status

4.5.1 Status Info

Status Info	Internal Port Status	DHCP Assigned	System Log
* This page will be refreshed at every ten seconds.			
WAN Status 			
Connect Mode	Dynamic IP		
Connect Status	CONNECTED	IP Release	
IP Address	192.168.0.156		
Subnet Mask	255.255.255.0		
Gateway	192.168.0.3		
DNS Server	61.74.63.1 210.117.65.1		
DDNS Status	Disable	Show IP DDNS Renew	
MAC Address	00:02:A8:09:4A:FB		
LAN Status			
IP Address	192.168.10.1		
Subnet Mask	255.255.255.0		
MAC Address	00:30:3f:50:96:d3		
WLAN Status			
SSID	AnyGate RG-3000A		
Channel	4 [2.427 GHz]		
Wireless Security	Disable		
Softmac Version	UMAC : 2.11.2.0 / LMAC : 2.11.1.0		
Software Version	RG-3000A 1.10 Build at 2005/05/31-11:26		

The Router's configuration status is displayed on the page.

4.5.2 Internal Port Status

Status Info

Internal Port Status

DHCP Assigned

System Log

Port Setup

	WAN	LAN1	LAN2	LAN3	LAN4
Mode	Dynamic	Dynamic	Dynamic	Dynamic	Dynamic
Speed	100Mbps	100Mbps	100Mbps	100Mbps	100Mbps
Duplex	FULL	FULL	FULL	FULL	FULL
APPLY	OK				Fix to Dynamic

Port Status

		WAN	LAN1	LAN2	LAN3	LAN4
	LINK	UP	DOWN	DOWN	DOWN	UP
	Speed	100Mbps	10Mbps	10Mbps	100Mbps	100Mbps
	Duplex	FULL	HALF	HALF	FULL	FULL
RX (packet)	Unicast	320877	0	0	581	68747
	Broadcast	203170	0	0	72	1037
	Multicast	16896	0	0	4	64

Port Setup

The feature allows changing Link Mode of The Router's WAN and LAN. If WAN side device(Modem) or LAN side devices(NIC) works in 10Mbps, Link between the Router and the devices might be failed.

Configuration procedure is as follows.

1. Select 'Static' Mode at 'Mode' field.
2. Choose speed out of one between 100Mbps and 10 Mbps at 'Speed' field.
3. Choose duplex out of one between FULL and HALF at 'Duplex' field.
4. Click 'OK' and then click 'SAVE' for saving the configurations.

4.5.3 DHCP Assigned

Status Info

Internal Port Status

DHCP Assigned

System Log

No.	IP Address	Host Info	MAC	Assigned Info
-----	------------	-----------	-----	---------------

The feature allows showing the list of DHCP assigned PC.

4.5.4 System Log

Status InfoInternal Port StatusDHCP AssignedSystem Log

Remote Log

☒ Disable ☐ Enable

Remote IP Address :

Port: (Default : 514)

OK

RESET

Time	LOG	Refresh
Jan 1 15:24:28	lart user.info udhcpd: unrelated/bogus packet	
Jan 1 15:24:28	lart user.info syslog: Link status is bad	
Jan 1 15:24:29	lart user.info udhcpd: unrelated/bogus packet	
Jan 1 15:24:29	lart user.info syslog: Link status is bad	
Jan 1 15:24:30	lart user.info syslog: Link status is bad	
Jan 1 15:24:31	lart user.debug udhcpd: Sending discover...	
Jan 1 15:24:31	lart user.info udhcpd: payload length is 276 bytes	
Jan 1 15:24:31	lart user.info syslog: Link status is bad	
Jan 1 15:24:32	lart user.info udhcpd: unrelated/bogus packet	
Jan 1 15:24:32	lart user.info syslog: Link status is bad	
Jan 1 15:24:33	lart user.debug udhcpd: Sending discover...	
Jan 1 15:24:33	lart user.info udhcpd: payload length is 276 bytes	

The feature allows showing system log of the Router.
In addition, it provides to e-mail the system log to administrator(users).

Technical Support

Contact your local distributor in your country or

AL Tech, Inc. in Korea www.airlinktek.com, Tel 82-2-3011-9219, Fax 82-2-566-6186, E-mail sales@airlinktek.com

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Caution

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

And this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm between the antenna and from all persons must be maintained to satisfy the RF exposure requirements.

Important Notice to User:

The antenna isn't standard connector that is reversed polarity and if you want to use the standard connector is not allowed.

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