

4-PORT
BROADBAND
ROUTER
USER
MANUAL
MODEL 524537



INT-524537-UM-0309-02

INTRODUCTION

Thank you for purchasing the INTELLINET NETWORK SOLUTIONS™ 4-Port Broadband Router, Model 524537.

Combining a router, firewall and four-port Fast Ethernet switch, this handy device lets you experience fast speeds as you surf the Web, download music or photos, and play online games. A DHCP server that automatically assigns IP addresses to users on the LAN — plus UPnP that supports gaming — makes this the perfect router for the home network.

Of course, keeping intruders out of your network can be a challenge, but this feature-rich router is designed to make that seemingly daunting task easier. It includes a true firewall that secures your network against hackers. With Network Address Translation (NAT) to shield your networked devices from intruders plus content control using URL and MAC filtering, you can rest assured that you have taken the necessary precautions to protect the data on your network.

The easy-to-follow instructions in this user manual help make setup and operation quick and simple, so you'll also soon be enjoying the benefits of these additional features:

- Integrated 10/100 Mbps LAN switch with Auto MDI/MDI-X support
- Supports virtual server and DMZ (demilitarized zone)
- Supports DDNS (dynamic DNS)
- Supports VPN pass-through (PPTP, L2TP)
- Supports static routing
- DHCP server supports static lease management
- Supports remote management
- Easy installation through Web-based user interface
- Firmware updates via Web-based user interface
- Three-Year Warranty

Package Contents

- 4-Port Broadband Router
- User manual
- RJ45 Ethernet cable: 1.0 m (3 ft.)
- Power adapter

NOTE: Some screen images have been modified to fit the format of this user manual.

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1 HARDWARE INSTALLATION

Using the included RJ45 Ethernet cable (and more, as needed), make your 4-Port Broadband Router network connections by following the steps below and referring to the Port and LED descriptions (presented from left to right).

1. Turn off all devices to be incorporated into the network, including any PCs, switches/hubs, the modem and the router.
2. Connect the LAN or Ethernet network port of the cable/DSL modem to the router's WAN port.
3. Connect PCs (and any switch/hub used to expand the network) to the router's LAN ports.
4. Turn on the cable/DSL modem, then turn on the PC you'll be using to configure the router.
5. Connect the included power adapter to the router and an AC outlet.

1.1 Rear Panel Ports & Jacks



WAN — This 10/100Mbps RJ45 port is for the cable/DSL modem connection.

PC1-4 — These four LAN ports are where you connect networked devices, such as PCs, print servers, remote hard drives and anything else you want to put on your network. If you connect a LAN port to a switch or hub, check that both the device's Power LED and the router's corresponding PC/LAN LED (see below) light to confirm the connection.

Default — Pushing this recessed button clears all established router configuration settings and resets to the factory default settings. See Section 3: Restore Defaults.

Power — This is the jack for the included external 9 V DC, 700 mA power adapter.

1.2 Front/Top Panel LEDs



SYS — Lights when the router power is on.

PC1-4 — These are the LAN Link/Activity LEDs that correspond to the four port connections on the rear panel of the router. Lighted indicates a successful connection; blinking indicates data is being transmitted or received through that port.

WAN — Lighted indicates a successful connection; blinking indicates data is being transmitted or received through that port.

2 NETWORK SETTINGS

Before you can connect to the router and begin your configuration, you need to be able to obtain an IP address automatically; that is, establish a dynamic IP address. The IP Address Setup procedures for Windows 98SE, Me, 2000, XP and Vista are presented here.

2.1 IP Address Setup

Windows 98SE / Me

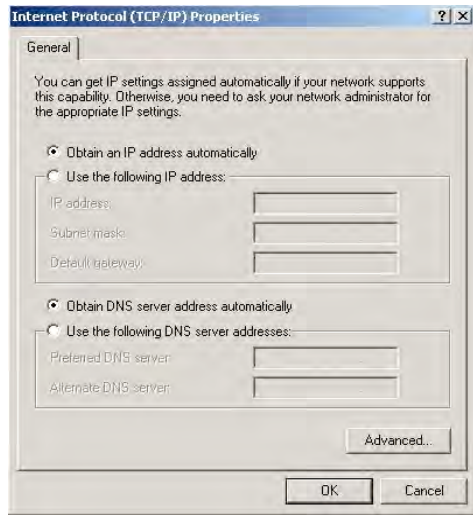
1. On your PC's desktop, click "Start" and go to the Control Panel.
2. Double-click the "Network" icon to display the Network dialog box.
3. Click the Configuration tab and ensure that you have the appropriate network card installed.
4. Select "TCP/IP." NOTE: If "TCP/IP" is listed more than once, select the item that has an arrow (→) pointing to the network card installed on your computer. *Do not* choose the TCP/IP listing that has the words "Dial Up Adapter" beside it.
5. Click "Properties" to display the TCP/IP Properties dialog box.
6. Ensure "Obtain IP Address Automatically" is selected/checked.
7. In the WINS Configuration dialog box, ensure that "Disable WINS Resolution" is checked.
8. In the Gateway dialog box, remove all entries from the "Installed gateways" section by selecting them and clicking "Remove."
9. In the DNS Configuration dialog box, remove all entries from the DNS Server Search Order box by selecting them and clicking "Remove." Remove all entries from the Domain Suffix Search Order box by selecting them and clicking "Remove." Click "Disable DNS."
10. Click "OK" to return to the Network Configuration dialog box.
11. Click "OK." If prompted to restart, click "Yes."

Windows 2000

1. On your PC's desktop, click "Start" and "Settings," then go to the Control Panel.
2. Double-click the "Network and Dial-up Connections" icon.
3. Right-click on the "Local Area Connections" icon to display the pop-up menu, then click Properties."
4. Highlight "Internet Protocol (TCP/P)" and click "Properties" (right).

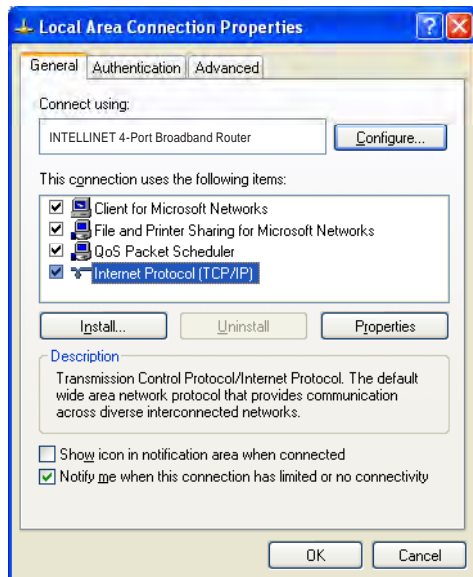


- On the Properties screen, select “Obtain an IP address automatically” and “Obtain DNS server address automatically,” then click “OK” to return to the previous screen.
- When the Local Area Connection Properties screen displays again, click “OK.”

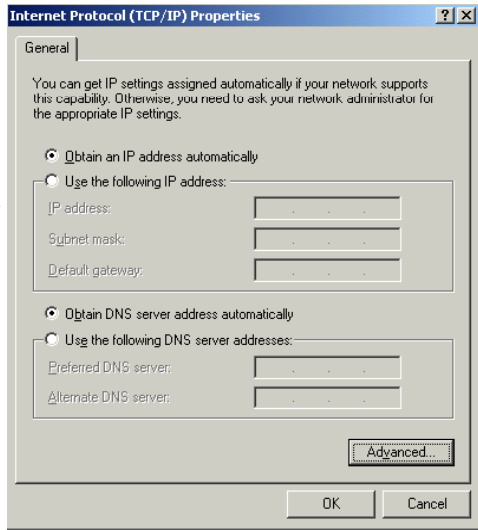


Windows XP

- On your PC's desktop, click “Start” and go to the Control Panel.
- Double-click the “Network and Internet Connections” icon, then click “Network Connections” and double-click “Local Area Connection.”
- On the subsequent Local Area Connection Properties screen (right), select “Internet Protocol (TCP/IP)” and click “Properties.”

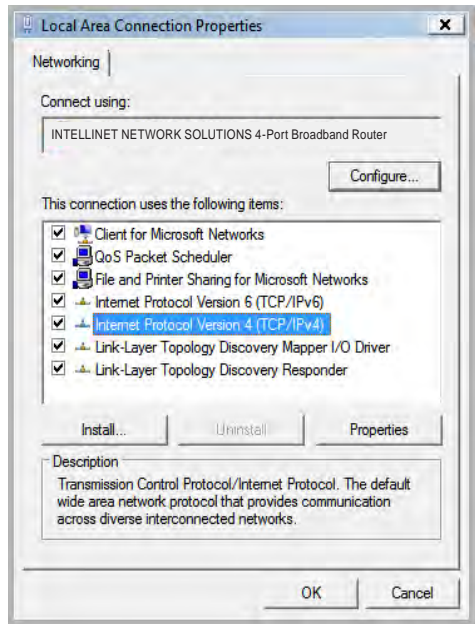


- On the Internet Protocol (TCP/IP) Properties screen, select “Obtain an IP address automatically” and “Obtain DNS server address automatically”; then click “OK” to return to the Local Area Connection Properties screen.
- When the Local Area Connection Properties screen displays again, click “OK.”

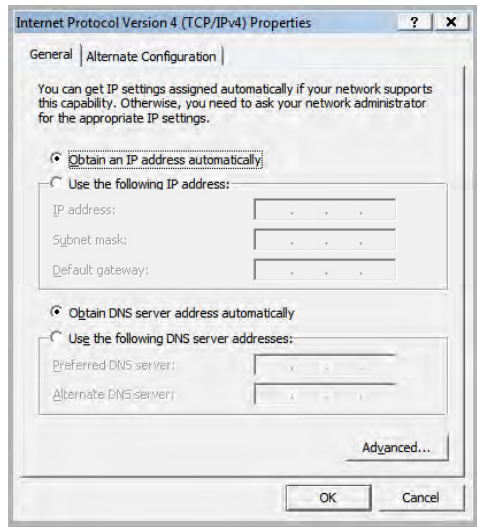


Windows Vista

- On your PC's desktop, click “Start” and go to the Control Panel.
- Click “View Network Status and Tasks”; then click “Manage Network Connections.”
- Right-click Local Area Network, then click “Properties.”
- On the Local Area Connection Properties screen, select “Internet Protocol Version 4 (TCP/IPv4)” and click “Properties.”



5. On the Internet Protocol Version 4 (TCP/IPv4) Properties screen, select “Obtain an IP address automatically” and “Obtain DNS server address automatically”; then click “OK.”

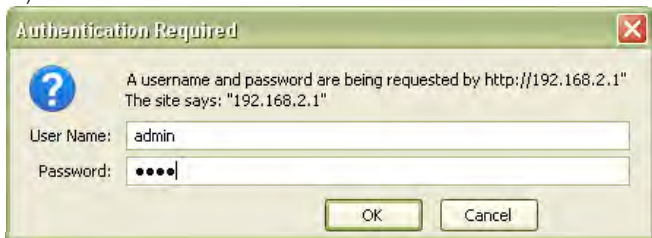


2.2 Browser Login

Now that you've obtained an IP address, there's just one more step before you can begin to configure your router. As this device is configured through an Ethernet connection, it's necessary to confirm that the host PC is set on an IP subnetwork that can be accessed by the router. For example, if the default network address of the router's Ethernet interface is 192.168.2.x, then the host PC should be set at 192.168.2.xxx (where xxx is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

1. Open your Web browser (Microsoft Internet Explorer 4.0 or Firefox 2.0 or later) and enter the IP address (192.168.2.1) in the address bar. Press <Enter> on your keyboard to display a login window (below).

2. Fill in the “User Name” and the “Password” fields, using the default values (“admin” for the username; “1234” for the password) if this is the first time you're



- logging in and you haven't changed your security settings yet (see Section 3.8.1: Login ID & Password Setup). **NOTE:** For security reasons, it's always recommended that you change the password from the factory-set default value as soon as you can.
3. Click “OK” to display the router's Web-based user interface homepage and begin your configuration, as instructed in the next section.

3 CONFIGURATION

This 4-Port Broadband Router provides a Web-browser management mode that uses the Web-based user interface presented in this section. Once you've logged in (Section 2.2 above), the Configuration homepage will display, from which you can navigate through the utility as needed to enter or change settings.

The screenshot shows the Router Configuration Web Interface. On the left is a vertical Function Menu with buttons for Status, WAN Setup, LAN Setup, Routing, NAT, Fire Wall, DDNS, and MISC. The main area is titled 'Router' and has tabs for Status, Statistics, and System Log. The 'Status' tab is active, showing 'WAN Status' and 'LAN Status' sections. The 'WAN Status' section includes fields for Connection Type (DHCP), Physical Address (08-10-17-64-F2-E4), IP Lease Time (0 Sec), WAN IP Address (0.0.0.0), Subnet Mask (255.255.255.0), Default Gateway (0.0.0.0), Primary DNS IP (0.0.0.0), and Secondary DNS IP (0.0.0.0). Below this is a 'Connect' button and a refresh message. The 'LAN Status' section includes Physical Address (08-10-17-64-F2-E3), LAN IP Address (192.168.10.1), Subnet Mask (255.255.255.0), and DHCP Server (ON). At the bottom is a 'SYSTEM INFO' section showing Edition Info (IGD-M2H-V2.3.77EN+, 2007.02.05.11:49).

On the left-hand side of each screen is the Function Menu, which presents the eight primary Configuration sections: Status, WAN Setup, LAN Setup, Routing, NAT, Firewall, DDNS and Misc. When a section listed in the Function Menu is clicked, corresponding information and options display to the right, including tabs at the top (Status, Statistics and System Log in the Status section) that can be clicked to display these specific sub-menus. At the top-right of each screen is the "Save" button, which is clicked whenever you want to save whatever settings you've made.

3.1 Status

Once you've established your configuration settings, the Status screens provide information and records you may need to make subsequent network decisions and upgrades.

3.1.1 Status

Presented above as the homepage, the Status sub-screen displays the connection status for the router's WAN/LAN interfaces and firmware version numbers.

Connect — Click to activate the Connect on Demand function, which connects the router to the Internet.

3.1.2 Statistics

This screen (below) displays a record of packets sent and received on the WAN interface.

Refresh — Click any time you want to update the information. (The data automatically updates every 5 seconds.)

3.1.3 System Log

Among other things, this screen displays unauthorized attempts to access your network.

System Run Time							
System Run Time		0 days 0 hours 11 minutes 51 seconds					
Type	Current NAT	Transmit Accumulation Statistic				Rate (KB/s)	
		Received Packets	Received Bytes (K)	Sent Packets	Sent Bytes (K)	Upload	Download
TCP	0	0	0	0	0	0	0
UDP	0	0	0	0	0	0	0
ICMP	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

3.2 WAN Setup

WAN Setup	
<input checked="" type="radio"/>	Dynamic IP User (Cable Modem)
<input type="radio"/>	PPPoE User (ADSL)
<input type="radio"/>	Static IP User
<input type="radio"/>	PPTP

The 4-Port Broadband Router allows one of four Internet-LAN connection types, which can be selected on this screen: Dynamic IP, PPPoE, Static IP and PPTP. Select the preferred — or, depending on the Internet service provider (ISP), the required — option to display the corresponding configuration screen. The default setting is Dynamic IP.

3.2.1 Dynamic IP

DHCP Client Setup	
Host Name	<input type="text" value="WinXP"/>
Domain Name	<input type="text" value="RouterDoMain"/>
Physical Address Clone	<input type="text" value="08-10-17-64-F2-E4"/> <input type="button" value="MAC Clone"/>
Default Physical Address	<input type="text" value="08-10-17-64-F2-E4"/> <input type="button" value="Default MAC"/>
MTU	<input type="text" value="1496"/>
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>

Host Name — This is typically optional, but may be required by some ISPs.

Domain Name — This is typically optional, but may be required by some ISPs.

Physical Address Clone — You can click "MAC Clone" to copy the MAC address of your PC so that it's also the MAC address of this device (if required by your ISP — see below).

Default Physical Address — The default MAC address is set to the WAN's physical interface

MAC address on the router. It is recommended that you *not* change the default MAC address unless it's required by your ISP.

MTU — Enter a value for the largest packet size to be permitted for network transmission. The default value of 1496 is recommended.

Primary DNS — Enter the primary address assigned by your ISP. **NOTE:** This is optional.

Secondary DNS — Enter the secondary address assigned by your ISP. **NOTE:** This is optional.

Apply — Click “Apply,” then “Save” to set and save any changes.

3.2.2 PPPoE

PPPoE Setup	
PPPoE Account	<input type="text"/>
PPPoE Password	<input type="text"/>
Physical Address Clone	08-10-17-64-F2-E4 <input type="button" value="MAC Clone"/>
Default Physical Address	08-10-17-64-F2-E4 <input type="button" value="Default MAC"/>
MTU	1492
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>
<input checked="" type="radio"/> Connect to internet automatically (Default)	
<input type="radio"/> Auto disconnect when idle, time out	
After <input type="text"/> minutes, if no found the access request then auto-break off!	
<input type="radio"/> Connect to Internet manually	
<input type="button" value="Apply"/>	

PPPoE Account — Enter your PPPoE username (provided by your ISP).

PPPoE Password — Enter your PPPoE password (provided by your ISP).

Physical Address Clone — You can click “MAC Clone” to copy the MAC address of your PC so that it's also the MAC address of this device (if required by your ISP — see below).

Default Physical Address — The default MAC address is set to the WAN's physical interface MAC address on the router. It is recommended that you *not* change the default MAC address unless it's required by your ISP.

MTU — Enter a value for the largest packet size to be permitted for network transmission. The default value of 1492 is recommended.

Primary DNS — Enter the primary address assigned by your ISP. **NOTE:** This is optional.

Secondary DNS — Enter the secondary address assigned by your ISP. **NOTE:** This is optional.

Connect to Internet automatically (Default) — When this is selected, the Internet connection is maintained as long as the router remains on. This is the default setting.

Auto disconnect when idle, time out — You can configure the router to cut your connection with your ISP after a specified period of time (Max. Idle Time, which you enter in the text field to the right).

Connect to Internet automatically — If you've been disconnected due to inactivity, select this option to re-connect.

Apply — Click “Apply,” then “Save” to set and save any changes.

3.2.3 Static IP

WAN IP Address — Enter as directed by your Internet service provider.

Subnet Mask — Enter as directed by your Internet service provider.

Default Gateway — Enter as directed by your Internet service provider.

Primary DNS — Enter as directed by your Internet service provider.

Secondary DNS — Enter as directed by your Internet service provider.

Physical Address Clone — You can click “MAC Clone” to copy the MAC address of your PC so that it's also the MAC address of this device (if required by your ISP).

Static IP Setup	
WAN IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Default Gateway	<input type="text"/>
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>
Physical Address Clone	08-10-17-64-F2-E4 <input type="button" value="MAC Clone"/>
Default Physical Address	08-10-17-64-F2-E4 <input type="button" value="Default MAC"/>
MTU	1496
<input type="button" value="Apply"/>	

Default Physical Address — The default MAC address is set to the WAN's physical interface MAC address on the router. It is recommended that you *not* change the default MAC address unless it's required by your ISP.

MTU — Enter a value for the largest packet size to be permitted for network transmission. The default value of 1496 is recommended.

Apply — Click "Apply," then "Save" to set and save any changes.

3.2.4 PPTP

PPTP	
User Name	<input type="text"/>
Password	<input type="text"/>
Server IP Address	0.0.0.0
Choose one WAN connection type DHCP or Static IP	
<input checked="" type="radio"/> DHCP	
<input type="radio"/> Static IP 0.0.0.0	
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>
Physical Address Clone	08-10-17-64-F2-E4 <input type="button" value="MAC Clone"/>
Default Physical Address	08-10-17-64-F2-E4 <input type="button" value="Default MAC"/>
MTU	1496
<input type="button" value="Apply"/>	

User Name — Enter the PPTP username provided by your ISP.

Password — Enter the PPTP password provided by your ISP.

Server IP Address — Enter the PPTP server address provided by your ISP.

WAN Connection Type: The two options are “DHCP” or “Static IP.” Select “Static” if your ISP assigned you the IP address, and enter it here.

Primary DNS — Enter as directed by your Internet service provider.

Secondary DNS — Enter as directed by your Internet service provider

Physical Address Clone — You can click “MAC Clone” to copy the MAC address of your PC so that it’s also the MAC address of this device (if required by your ISP).

Default Physical Address — The default MAC address is set to the WAN’s physical interface MAC address on the router. It is recommended that you *not* change the default MAC address unless it’s required by your ISP.

MTU — Enter a value for the largest packet size to be permitted for network transmission. The default value of 1496 is recommended.

Apply — Click “Apply,” then “Save” to set and save any changes.

3.3 LAN Setup

The LAN Setup screen allows you to specify a private IP address for your router’s LAN ports as well as a subnet mask for your LAN segment.

System IP Setup			
System IP Address	192.168.2.1		
Subnet Mask	255.255.255.0		
<input checked="" type="checkbox"/> DHCP Server on			
DHCP IP Pool	192.168.2.100 - 192.168.2.254		
DHCP Lease Time	86400 S		
<input type="button" value="Apply"/>			
DHCP IP Address Reserving			
<input type="checkbox"/> Auto Setup			
Physical Address			
IP Address	192.168.2. []		
<input type="button" value="Add"/>			
ID	IP Address	Physical Address	Delete

System IP address — This is the router’s LAN port IP address (your LAN clients’ default gateway IP addresses).

Subnet Mask — Specify a subnet mask for your LAN segment.

DHCP Server on — Select to enable or disable the DHCP server. When enabled (“on”), the router will automatically give your LAN clients an IP address. When not enabled/selected, you’ll need to manually set your LAN clients’ IP addresses. **NOTE:** Make sure the LAN client is in the same subnet as this broadband router if you want the router to be your LAN clients’ default gateway.

DHCP IP Pool — You can select a particular IP address range for your DHCP server to issue IP addresses to your LAN clients. **NOTE:** By default the IP range is from 192.168.2.100 to 192.168.2.254. If you want your PC to have a static/fixed IP address, then you’ll need to choose an IP address outside this IP address pool.

DHCP Lease Time — Specify how long (in seconds) an IP address is valid for a computer before a new IP address is issued. Normally, there is no need to change this value.

In the DHCP IP Address Reserving panel, you can reserve IPs for a specific computer.

Auto Setup — Select to assign a particular IP to your computer.

Physical Address — As an option to “Auto Setup,” enter the MAC address of the network card installed in the computer to assign a particular IP to it and click “Add,” which will display a Current Address Reserving Table showing information about current address reserving. To remove a listing from the table, select it and click “Delete.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.4 Routing

If the router is connected to more than one network, it may be necessary to set up a static route between them. A static route is a pre-determined pathway that network information must travel in order to reach a specific host or network.

Routing Table Management					
Type	Target	Mask	Gateway		
NET				<input type="button" value="Add"/>	
ID	Type	Target	Mask	Gateway	Delete
1	NET	172.16.2.0	255.255.255.0	192.168.10.18	<input type="button" value="Delete"/>

Type / Target / Mask / Gateway — Fill in these fields required by this Static Routing function.

Add — Click to add a new static routing entry and display the Current Routing Table, which shows the valid routing paths in the router. To remove a listing from the table, select it and click “Delete.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.5 NAT

Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single public IP address. NAT provides firewall protection from hacker attacks and has the flexibility to allow you to map private IP addresses to public IP addresses for key services such as Web and FTP sites.

3.5.1 DMZ Host Setup

The DMZ screen allows one local user to be exposed to the Internet for use of a special-purpose service such as Internet gaming and videoconferencing. DMZ hosting forwards all the ports for one PC at the same time.

DMZ Host Setup	
<input checked="" type="checkbox"/> DMZ	<input type="text" value="192.168.10.0"/> <input type="button" value="Apply"/>

DMZ — Select to activate the function, then enter the host IP in the field to the right.

Apply — Click “Apply,” then “Save” to set and save any changes.

3.5.2 FTP Private Port

This enables a user to set up an FTP server which is not using the standard Port 21.

Port Number — Select to activate the function, then fill in the field to the right.

FTP Private Port	
<input checked="" type="checkbox"/> Port Number	1025 <input type="button" value="Apply"/>

Apply — Click “Apply,” then “Save” to set and save any changes.

3.5.3 Virtual Server Setup

This screen lets you specify some services to be visible by outside users. The router can detect an incoming service request and forward it to the specific local computer to handle it. For example, a user can assign a PC in the LAN to act as a Web server inside and expose it to the outside network. An outside user can browse inside the Web server directly while it is protected by NAT.

Virtual Server Setup						
Rule Name		<input type="text"/>				
Internal Server IP Address		<input type="text"/>				
Protocol		TCP <input type="button" value="v"/>				
External Port		<input type="text"/>				
Internal Port		<input type="text"/>				
<input type="button" value="Add"/>						
ID	Rule Name	Internal IP	Protocol	External Port	Internal Port	Delete
1	FTP	192.168.10.10	TCP	21	21	<input type="button" value="Delete"/>
2	HTTP	192.168.10.2	TCP	80	80	<input type="button" value="Delete"/>

Rule Name — Enter a description of this setting for identification.

Internal Server IP Address — This is the LAN client/host IP address that the external port number packet will be sent to.

Protocol — Select a protocol type from the drop-down menu: TCP, UDP, FTP, HTTP, HTTPS, POP3, SMTP, DNS, TELNET, IPSEC, PPTP.

External Port — This is the port number that is open to the outside (public) Internet.

Internal Port — This is the internal PC port (in most cases, this is identical to the external port).

Add — Click after filling in the fields to add the rule and display the Current Virtual Server Table, which shows the valid virtual servers in the router. To remove a listing from the table, select it and click “Delete.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.5.4 Port Triggering

This screen allows the router to watch outgoing data for specific port numbers. The IP address of the computer that sends the matching data is remembered by the router so that when the requested data returns through the router the data is pulled back to the proper computer by way of IP address and port mapping rules.

Predefined Trigger Rules — Select one of the predefined rules from the drop-down menu.

Rule Name — Enter any name you want to use for identification.

Trigger Protocol — Select either “TCP” or “UDP” as the outbound port protocol.

Trigger Port — This is the out going (outbound) range of port numbers for this particular application. **NOTE:** Individual port numbers are separated by a comma (e.g., 47824, 5776).

To input a port range, use a hyphen to separate the two port numbers (e.g., 3300-3800).

Port Triggering				
Predefined Trigger Rules	Select one of the predefined rules ▾			
Rule Name	<input type="text"/>			
Trigger Protocol	TCP ▾			
Trigger Port	<input type="text"/> - <input type="text"/>			
Forward Protocol	TCP ▾			
Forward Port	<input type="text"/>			
<input type="button" value="Add"/>				
ID	Rule Name	Trigger Condition	Forward Condition	Delete
1	GuruGuru	tcp:31200	tcp:9292	<input type="button" value="Delete"/>

Forward Protocol — Enter the incoming (inbound) port or port range for this type of application (e.g., 2300-2400, 47624). **NOTE:** Individual port numbers are separated by a comma (e.g., 47824, 5776).

Forward Port — Select the inbound port protocol type: “TCP” or “UDP.”

Add — Click after filling in the fields to add the rule and display the Current Trigger-Port Table, which shows the valid trigger rules in the router. To remove a listing from the table, select it and click “Delete.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.6 Firewall

The router provides extensive firewall protection by restricting connection parameters to limit the risk of hacker attack, and by defending against a wide array of common hacker attacks. The router provides packet filtering rules by restricting service ports, IP addresses or MAC addresses.

3.6.1 MAC Filtering Configuration

You can block certain client PCs from accessing the Internet based on MAC addresses.

MAC Filtering Configuration			
Status	The current status is enabled		<input type="button" value="Stop"/>
<input checked="" type="checkbox"/>	If checked, the undefined item in MAC Address list is allowed to access Internet; Unchecked means reverse		<input type="button" value="Apply"/>
MAC Address	<input type="text"/>	Permit ▾	<input type="button" value="Add"/>
ID	MAC Address	Rule	Delete
1	08-10-17-47-0B-FA	Permit	<input type="button" value="Delete"/>

Stop — Click to turn off the Mac Filtering configuration when “Status” shows “enabled”; click (“Start”) to turn on the configuration when it’s shown as “disabled.”

Check Box — If selected, the undefined item in the MAC Address list is allowed to access the Internet.

MAC Address — Enter the toggled physical address to be either allowed or denied access to

the Internet (by selecting “Permit” or “Deny” from the drop-down menu. **NOTE:** Enter the 12-digit MAC address in this format: XX-XX-XX-XX-XX-XX (with the hyphens).

Add — Click after filling in the fields to add the rule and display the Current MAC Filtering Table, which shows the valid MAC filtering rules in the router. To remove a listing from the table, select it and click “Delete.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.6.2 Connection Filtering Configuration

This screen lets you control a certain client PC’s access to the Internet based on IP addresses, application types (i.e., HTTP port) and time of day.

Connection Filtering Configuration	
Status	The current status is disabled <input type="button" value="Start"/>
<input checked="" type="checkbox"/> If checked, the undefined item in IP Address list is allowed to access Internet, Unchecked means reverse	<input type="button" value="Apply"/>
Rule Name	<input type="text"/>
Source IP Address	192.168.10. <input type="text"/> - 192.168.10. <input type="text"/>
Protocol	ALL <input type="button" value="v"/>
Destination Port	<input type="text"/> - <input type="text"/>
status	Permit <input type="button" value="v"/>
Days To Block	<input type="checkbox"/> Everyday <input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat
Times To Block	<input type="checkbox"/> All Day <input type="text" value="00:00"/> <input type="button" value="v"/> - <input type="text" value="00:00"/> <input type="button" value="v"/>
<input type="button" value="Add"/>	

Stop — Click to turn off the Connection Filtering configuration when “Status” shows “enabled”; click (“Start”) to turn on the configuration when it’s shown as “disabled.”

Check Box — If selected, the undefined item in the IP Address list is allowed Internet access.

Rule Name — Enter any name you want to use for identification.

Source IP address— Enter the IP address you want to apply this Access Control rule to.

Protocol — Select the protocol type: TCP, UDP, FTP, HTTP or all of them.

Destination Port — Assign a port number or a port range. The router will block clients from accessing Internet services that use these ports.

Days To Block — Select days to block.

Times To Block — Select times to block.

Add — Click after filling in the fields to add the rule and display the Current Access Control Table, which shows the current Access Control rules in the router. To remove a listing from the table, select it and click “Delete.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.6.3 URL Filtering Configuration

This screen lets you enter keywords specific to the site in these fields. The router will block access to sites that use these keywords.

URL Filtering Configuration		
Note: You can use wildcards (* and ?); "*" is the multi-letters; "?" is a letter; For example: "*.sex*" express that all URL with "sex" will be blocked!		
Input Filtering Keyword		<input type="text"/>
		<input type="button" value="Add"/>
ID	Filtering Keyword	Delete
1	*.sex*	<input type="button" value="Delete"/>

Input Filtering Keyword — Enter whatever keyword you want to block access to. You can even use asterisks and question marks, which act as “wild card” symbols: The asterisk (*) will substitute for multiple characters; the question mark (?) will substitute for a single character.

Add — Click after filling in the field to add the rule and display the Current URL Filtering Control Table, which shows the current rules in the router. To remove a listing from the table, select it and click “Delete.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.7 DDNS

This feature lets you assign a fixed host and domain name to a dynamic Internet IP address, which can be useful when you’re hosting your own Web site, FTP server or other server behind the router. **NOTE:** Before you can use this feature, you need to sign up for DDNS service. (Go to dyndns.com for options.) If you don’t want to use this feature, keep the default setting, which is “Stop.”

DDNS Setup	
* Sign up www.dyndns.org first.(Free)	
DynDNS Operation	<input checked="" type="radio"/> Start <input type="radio"/> Stop
User ID	<input type="text"/>
Password	<input type="text"/>
Host Name	<input type="text"/>
Information	close!
<input type="button" value="Apply"/>	<input type="button" value="Refresh"/>

User ID — Enter the username of the account you set up with DynDNS.org.

Password — Enter the password of the account you set up with DynDNS.org.

Host Name — Enter the host name of the account you set up with DynDNS.org.

Information — The status of the DDNS service connection is displayed here.

Apply — Click to finish the settings, then “Save” to set and save any changes.

Refresh — Click to display the newest status..

3.8 Misc.

This menu presents a number of options you can use to “fine tune” your configuration of the router.

3.8.1 Login ID & Password Setup

The factory-set default password is “guest.” You can change the default password to ensure that someone can’t adjust your settings without your permission. Every time you change your password, record it and keep it in a safe place: If you forget it, you’ll need to reset the router to the factory defaults. (See Section 1.1 regarding the “Default” button for resetting the device.)

Login ID & Password Setup	
Login name is "guest"	
New Password	•••••
Confirm New Password	•••••
<input type="button" value="Apply"/>	

New Password — Enter your new password.

Confirmed New Password — Enter your new password again for verification purposes.

Apply — Click “Apply,” then “Save” to set and save any changes.

3.8.2 Remote Management

This feature allows you to manage the router from a remote location via the Internet.

Remote Mgmt	
<input checked="" type="checkbox"/> Management Port	8080
<input type="button" value="Apply"/>	

Management Port — Enter the port number you want to use for this feature. To access the Web-based management from a remote site, enter `http://<WAN IP Address>:8080`. (e.g., `http://192.168.1.8:8080`, where 8080 is the management port number, as shown above).

Apply — Click “Apply,” then “Save” to set and save any changes.

3.8.3 UPnP Setup

Universal Plug and Play (UPnP) allows automatic discovery and configuration of equipment attached to your LAN, ensuring compatibility with networking equipment, peripherals and software and provided by manufacturers who incorporate the Universal Plug and Play feature.

UPnP Setup	
<input checked="" type="checkbox"/> Enable UPnP Server	
<input type="button" value="Apply"/>	

Enable UPnP Server — In other words, just select this to use UPnP.

Apply — Click “Apply,” then “Save” to set and save any changes.

3.8.4 System Time Setup

This feature allows your router to base its time on the settings configured here (which will affect functions such as Firewall).

System Time Setup	
System Time	Feb 27 2004 7:17:54
GMT	(GMT+08:00) Beijing, Hongkong, KualaLumpur, Singapore
<input type="button" value="Apply"/>	

GMT — Select the time zone of the country you are currently in from the drop-down menu.

The router will set its time based on your selection

Apply — Click “Apply,” then “Save” to set and save any changes.

3.8.5 WAN Link Status & Setup

WAN Link Status & Setup				
WAN Link Status	100Mbps-Full	WAN Link Setup	Auto	Apply

WAN Link Setup — Select the desired mode from the drop-down menu, which will then display to the right of “WAN Link Status.” The default setting is “Auto.”

Apply — Click “Apply,” then “Save” to set and save any changes.

3.8.6 Restore Default / Restart System

Restore Default / Restart System	
Restore Default	Restart System

Restore Default — Click to restore the router's configuration to its factory default settings. The router will present a confirmation message, then restart automatically.

Restart System — Click to reboot the router.

3.8.7 Firmware Upgrade

To upgrade the firmware of your router, you need to download the firmware file to your local hard disk.

Firmware Upgrade	
New Firmware File:	<input type="text"/> Browse... Apply

New Firmware File — Enter the firmware file name or click “Browse” to locate it on your PC.

4 SPECIFICATIONS

Standards

- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)

General

- LAN ports: 4 RJ45 10/100 Mbps data ports
- LAN ports with Auto MDI/MDI-X
- WAN port: 10/100 Mbps RJ45 connector
- Certifications: FCC Class B, CE Mark

Router

- Supported WAN connection types:
 - Dynamic IP (DHCP for cable service or DSL)
 - Static IP
 - PPPoE/PPTP (for DSL)
- Protocols:
 - CSMA/CD
 - TCP/IP
 - UDP
 - ICMP
 - PPPoE
 - NTP
 - NAT
 - DHCP
 - DNS
 - DDNS
 - ARP
- NAT:
 - Virtual server
 - Special applications (port trigger)
 - DMZ (demilitarized zone)

- Firewall:
 - URL filter
 - MAC address filter
 - Connection filtering: limits access to the Internet of PCs in the LAN based on a time schedule
- Supports UPnP (Universal Plug and Play)
- Supports DHCP (client/server)
- Supports PPPoE (DSL), DHCP (cable/DSL) and static IP
- Supports VPN PPTP L2TP pass-through

LEDs

- SYS (power)
- WAN Link/Act
- LAN 1-4 Link/Act

Environmental

- Dimensions: 150 (W) x 105 (L) x 27 (H) mm (5.9 x 4.1 x 1.06 in.)
- Weight: 0.142 kg (0.31 lbs.)
- Operating temperature: 0 – 50°C (32 – 122°F)
- Operating humidity: 10 – 95% RH, non-condensing
- Storage temperature: -40 – 70°C (-40 – 158°F)

Power

- External power adapter: 9 V DC, 700 mA

Package Contents

- 4-Port Broadband Router
- RJ45 Ethernet cable: 1.0 m (3 ft.)
- Power adapter
- User manual



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