



WLAN AccessPoint/Router/Switch Quick Setup Guide

RTW026



1 Introduction

The Dynalink RTWo26 Wireless Router/Access Point/Switch provides:

1. Wireless access point service to IEEE 802.11b wireless network.
2. Bridging over an Ethernet network, and interconnects between Ethernet and wireless networks.
3. Routing over Ethernet WAN port to enable Internet sharing.

The RTWo26 wireless router performs all the necessary inter-connecting, bridging and routing functions. It receives data from both WAN and LAN, stores them locally for further processing, maintains connections and transmits the packets to the intent destinations. The wireless router provides continuous and high-speed access between your wireless and Ethernet networks. Connecting your entire network to the Internet is realised through an external broadband access device, such as an ADSL/cable modem router.

2 Hardware Connection

1. WAN CONNECTION

For Internet access sharing, connect the WAN port of the RTWo26 to the Ethernet (LAN) port of an ADSL/cable modem router using an Ethernet cable. Depending on the ADSL/cable modem router, the Ethernet cable can be a crossover or a straight-through cable. It is important to use the Ethernet cable that came with the ADSL/cable modem router.

2. LAN CONNECTIONS

Ethernet clients:

Connect client computers or network hubs to any of the LAN ports marked L1 to L4 on the router. The LAN ports of the router support auto crossover. The cables used may be either straight-through or crossover.

Wireless clients:

Only the IEEE 802.11b standard is supported. If necessary, refer to the user documents of the wireless LAN card for instructions to set up the wireless stations.

3. CONNECTING THE POWER

Connect the supplied power adaptor (12VDC 1A) to the PWR port of your wireless router. Plug the power adaptor into a suitable AC power point. Turn on the power switch at the back of the router.

3 *Configure the wireless router*

You will need a host computer to configure the RTWo26. The host computer must be connected to the router either directly or through an external hub. If the host computer is a wireless station, see also Section 5. The host computer shall meet the following requirements:

- Ethernet enabled and TCP/IP installed.
- IP is on the same subnet as the wireless router.
- A suitable web browser installed, such as Internet Explorer 5.x or better.

The default configuration of the RTWo26 wireless router is:

Default IP address	192.168.1.1
Subnet mask	255.255.255.0
DHCP server	enabled
Default password	admin


Wireless defaults:


SSID	IEEE 802.11b LAN
WEP	disabled
Authentication Type	Open Key (or known as Open System)

Note: Use only **Infrastructure** mode on all wireless stations.

The host computer can be set up to obtain an IP address from the wireless router. If not, assign 192.168.1.x (x is between 2 and 254) and 192.168.1.1 as the gateway. This configuration is also for all Ethernet clients.

Start the web browser and type the URL **http://192.168.1.1** to enter the configuration page. You will be prompted to enter password.



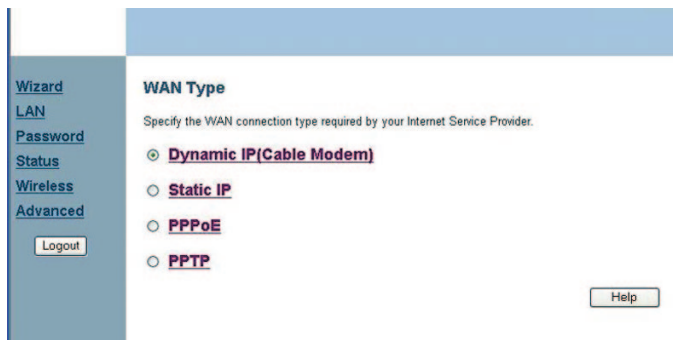
While working through the menu system, at any time clicking the  button will enable and save the new setting.

At any time clicking the  button will call up the on-screen help system.

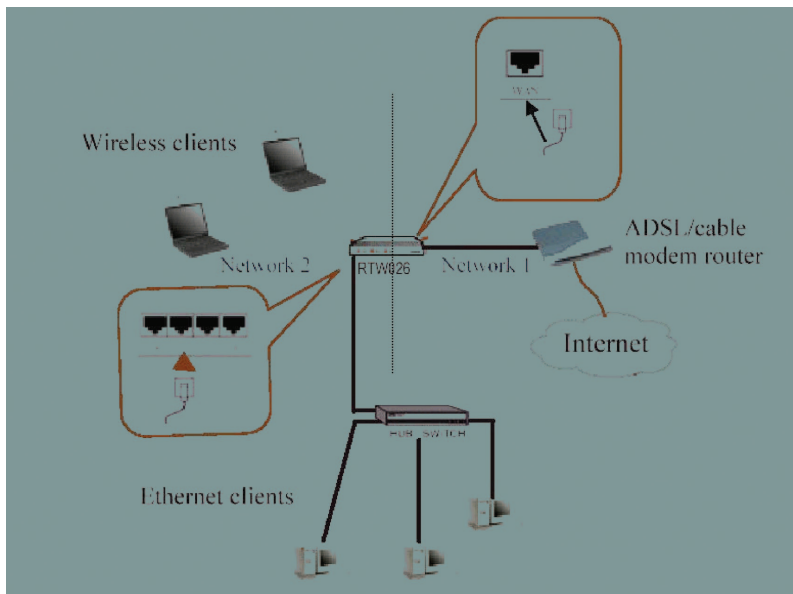
4 *Internet access and sharing*

To configure the RTWo26 to access and share Internet, go to **Wizard** and select **Dynamic IP (Cable Modem)** then **Finish**. This option is not exclusively reserved for use with a cable modem. Any broadband modems, including ADSL modem or routers can be used.

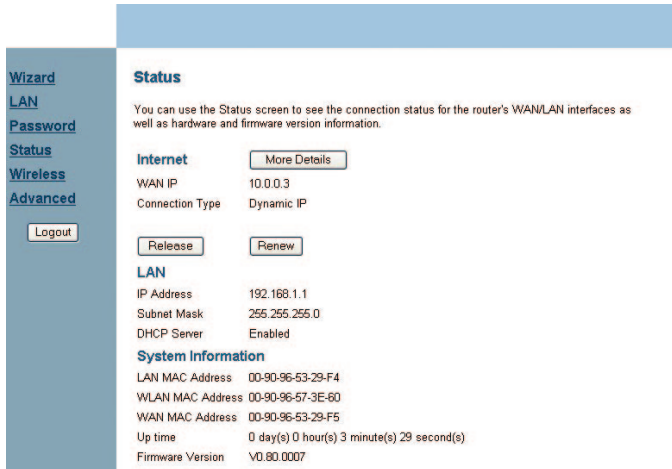
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If you are using an ADSL/cable modem router for Internet access, the private IP of the ADSL/cable modem router must not be on the same subnet as the RTW026. The figure below shows the need to configure two local networks. Network 1 consists of your RTW026 router and the ADSL/cable modem router. Network 2 consists of RTW026 and the rest of your LAN. The recommended configuration is to enable DHCP server on both the ADSL/cable modem router and your Dynalink RTW026 router.



The example below shows assigning 192.168.1.x to Network 2 and 10.0.0.x to Network 1. The RTWo26 has IP address 192.168.1.1 on Network 2 (LAN side) and 10.0.0.3 on Network 1 (WAN side). You can inspect the IP addresses by clicking on Status.



5 Wireless clients

You should refer to the user document that came with the wireless LAN card to:

- Install the wireless card driver.
- Configure the SSID and WEP on the client computer.

All wireless clients shall use the same wireless settings as the RTWo26. Hence SSID, WEP & authentication type shall be identical.

All wireless clients shall be on the same subnet as the RTWo26. A wireless client can be set up to obtain an IP address from the router's DHCP server. If not, assign 192.168.1.x (x is between 2 and 254) and the gateway as 192.168.1.1.

6 Advanced functions

Your wireless router supports a wide range of advanced functions such as:

- Router security control and system backup.
- Client access control such as access rights, URL & content filtering.
- Virtual servers for applications.
- System logging.
- Email alert on router specified network activities.

Please refer to the complete user's manual on CDROM.

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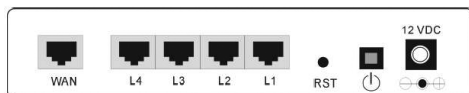
The front & rear panels of your wireless router

FRONT PANEL

There are eight indicators on the front panel. The following table summarises the meaning of these indicators. If both the PWR & the DIAG lights come on simultaneously, there is a fault with the router.

INDICATOR	STATUS	DESCRIPTION
PWR	Off On solid	Power off Power on
DIAG	Off Blinking On solid	Power off or initial self-test OK Updating parameters or upgrading in progress Initial self-test failure or flash upgrade failure
LAN1 to LAN ₄	Off Blinking On solid	Power off or no Ethernet connection is present Traffic is passing through LAN port Ethernet connection is ready
WLAN	Off Blinking On solid	Power off or wireless function fails Traffic is passing through WLAN interface WLAN ready
WAN	Off Blinking On solid	Power off or WAN connection is not present Traffic is passing through WAN port WAN connection is ready

REAR PANEL



- WAN** For connection to the Ethernet port of ADSL modem, cable modem or any other broadband access devices.
- L1 ~ L4** For connection to Ethernet clients, directly or via network hubs. These ports support 10/100 Base-TX, auto-sensing & auto-crossover.
- RST** Push and hold for 5 seconds to reset router to factory default settings.
- PWR** Power switch.
- 12VDC** Power connector.

8

Troubleshooting

PROBLEMS WITH LAN

Computer is not getting IP address from the wireless router

- Check that wireless router has DHCP server enabled.
- Check that the computer is set up to obtain an IP address automatically.
- Renew the IP on the client computer.

Computer cannot access the wireless router's web configuration page

- Check login password, the default is admin (all lower case).
- Check the computer's IP address. The wireless router is 192.168.1.1 by default and the client computer's IP must be in the range 192.168.1.2 to 192.168.1.254.
- If the computer is set up to obtain an IP address automatically, and the IP address currently assigned is 169.254.x.x, renew the IP and check that the computer is connected to the wireless router.
- If the computer is a wireless station, check that the SSID and WEP settings are identical to the settings of the wireless router.
- Turn off any personal firewall, or reset the browser's security setting to default.
- Reset wireless router to factory default by pressing the reset button to return it to 192.168.1.1.

PROBLEMS WITH WAN

No Internet access

- Check that the WAN light on the wireless router front panel is on.
- Check that the ADSL/cable modem router responsible for connecting to the Internet is working. Remove the wireless router and substitute with a computer to verify the Internet link is active. Refer to the user documents of the ADSL/cable modem router if required.
- Determine if the wireless router has obtained a WAN IP from ADSL/cable modem router. Refer to last paragraph of Section 4 (status check).
- Go to **Advanced - NAT** on the wireless router to check that Network Address Translation (NAT) is enabled.
- Check that client computer specifies the wireless router's IP as gateway.
- Go to the DOS prompt, ping the IP address of the wireless router (default is 192.168.1.1). If you get a failed ping response make sure the wireless router and the network are connected.

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Cannot establish wireless link

- Check that the WLAN light on the front panel of the wireless router is on.
- Make sure the wireless router and wireless clients are configured using the same SSID and WEP settings.
- If Wireless Association Control (see **Wireless - Advanced Wireless Security**) is enabled, check that the client's MAC address is given access rights.

How to find the MAC address of a WLAN card

- If the wireless card has not been installed, follow the vendor's instructions to find the device's MAC address. Usually it is printed on a label affixed to the device.
- If the wireless card is already installed on the computer, an alternative is to go to the DOS prompt, type **ipconfig /all**. The MAC address is shown under **physical address** as a group of six double digits.

Radio interference

Other wireless devices and appliances on site may share the same 2.4 GHz band. If undesirable effects are observed, try switching the router to a different channel. Alternatively, switch the other devices to use a different channel.

Warranty



Dynalink warrants this product against defects in materials and workmanship for a period of twelve months from the original date of purchase. We will, at our discretion, repair or replace the faulty unit, free of charge, provided it is returned to us with proof of purchase from an authorised dealer within the warranty period. Return delivery after repair will be paid for by Dynalink. We reserve the right not to repair or replace goods that:

- ⊕ have been mishandled, abused or not installed according to the guidelines as outlined in the instructions.
- ⊕ have been subjected to a power surge from other equipment or other external factors.
- ⊕ have been altered or modified.

Help



Always check that your hardware is installed correctly. Check our web site for the latest information and troubleshooting guide. If you have difficulties, contact Dynalink Technical Support for issues relating to installation and operation.

If possible, visit Dynalink's on-line support area at:

New Zealand www.dynalink.co.nz/support

Australia www.dynalink.com.au/support

Contact Dynalink's Technical Support:

New Zealand

Phone 0800 653 962

Fax 0800 503 962

(Monday-Friday: 8:30am-7:30pm)

Australia

Phone 1800 653 962

Fax 1800 063 962

(Monday-Friday: 8:30am-5:30pm)

