

ADSL2+ BROADBAND MODEM ROUTER QUICK START GUIDE

MODELS 523462 (ANNEX A)
& 523998 (ANNEX B)



FCC REGULATORY STATEMENTS

FCC Part 68

This equipment complies with Part 68 of FCC Rules. On the bottom of this device is a label with the FCC registration number and ringer equivalence number (REN) for this equipment. You must provide this information to the telephone company upon request. The REN is useful to determine the quantity of devices you may connect to the telephone line and still have all of those devices ring when your number is called. In most areas, the total of the REN of all devices connected to one line should not exceed five. To be certain of the number of devices you may connect to your line, as determined by the REN, contact your local telephone company.

If the modem causes harm to the telephone network, the telephone company may discontinue your service temporarily, notifying you in advance (if feasible) or as soon as possible. You will be advised of your right to file a complaint with the FCC. Also, the telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper operation of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this device, contact your INTELLINET NETWORK SOLUTIONS™ dealer for repair/warranty information. The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Installation

This device is equipped with a USOC RJ-11C connector.

FCC Part 15

This equipment complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

INTRODUCTION

Thank you for purchasing this INTELLINET NETWORK SOLUTIONS™ ADSL2+ Broadband Modem Router, Model 523462 (Annex A) or Model 523998 (Annex B). An all-in-one modem, router, firewall and Fast Ethernet 4-port switch, it allows you to access the Internet and download music, play interactive games online or surf the Web at double the speed previously available through ADSL2.

Improved modulation efficiency reduces framing overhead, achieves higher coding gain, improves the initialization time and provides enhanced signal-processing algorithms. ADSL2 increases downstream data rates to more than 12 Mbps (as compared to between 8 and 10 Mbps for original ADSL) and can extend reach by approximately 600 feet.

With the ADSL2+ standard doubling the maximum frequency used for downstream data transmission (from 1.1 MHz to 2.2 MHz), the ADSL2+ Broadband Modem Router effectively provides downstream data rates of 24 Mbps on standard copper phone lines as long as 5,000 feet (depending on the operating environment and distance between networked devices).

Real-time performance-monitoring capabilities provide information regarding line quality and noise conditions at both ends of the line. Service providers can use the data to monitor the quality of your ADSL connection to prevent service failures and keep your connection up and running without disruption. They can also use the data to determine if you qualify for higher data-rate services.

All these popular features — as listed below — provide you with improved interoperability, fast startup and enhanced voice support.

- Includes integrated ADSL2+ modem
- Supports 24 Mbps ADSL2+ downstream data rate
- Supports ADSL standards G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2), G.992.4 (splitterless ADSL2) and G.992.5 (ADSL2+) for Annex A/B
- Integrated 10/100 Mbps LAN switch with Auto MDI/MDI-X support
- DHCP server assigns IP addresses for all LAN users
- Supports virtual server, port forwarding and DMZ (demilitarized zone)
- Supports DDNS (dynamic DNS)
- Supports UPNP (Universal Plug and Play)
- Supports VPN pass-through (IPSec, PPTP, L2TP)
- Integrated anti-DOS firewall
- Content control through URL and domain filter
- Remote management function
- Supports SNMP management
- Easy installation through Web-based user interface
- Firmware updates via Web-based user interface
- Lifetime Warranty

INSTALLATION

PACKAGE CONTENTS

- ADSL2+ Broadband Modem Router
- Power adapter
- Ethernet Cat5 RJ-45 cable, 1.0 m (3 ft.)
- RJ-11 telephone cable, 1.8 m (6 ft.)
- Quick start guide
- Setup CD with user manual and setup wizard

CONNECTIONS

NOTE: In addition to the items listed above in Package Contents, the minimum requirements necessary to configure and use the ADSL2+ Broadband Modem Router include a PC with a pre-installed Ethernet adapter and a Web browser (Internet Explorer 4.0 or higher).

Once you've confirmed you have everything needed to continue, the setup and installation of the device is easy.

1. From the ADSL port, connect the router to your ADSL network using the RJ-11 telephone cable provided.
2. From any of the LAN ports, connect the router to your PC, hub, switch or other component using the Ethernet Cat5 RJ-45 cable provided.
3. Connect the router's power outlet to a power source using the power adapter provided. **NOTE:** Use only the power adapter included with this device.
4. Check that the green ADSL LED is on, indicating a successful connection. If the ADSL LED is blinking — indicating that no connection has been made — contact your Internet service provider.

ISP SETTINGS

This router provides a setup wizard used to configure the ADSL settings. This wizard collects and enters ADSL settings from some Internet service providers (ISPs) simply by selecting the ISP when prompted. If you cannot find your particular ISP listed in the wizard, refer to the Quick Start instructions in the Web Management Configuration section of the user manual on the enclosed CD.

Before starting:

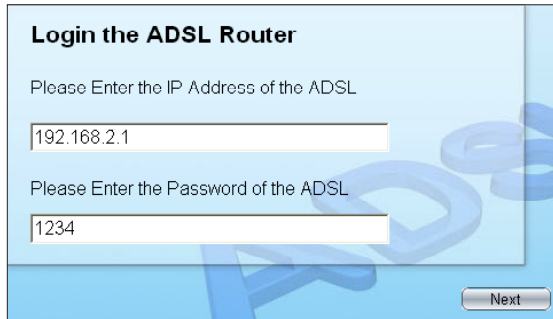
- Make sure the ADSL cable is connected to the router correctly. When the ADSL cable is working normally, the ADSL LED will be on.
- Uninstall all dial-up programs previously installed for the USB modem or

other dial-up devices.

- It is recommended that the router first be configured with the Ethernet cable connected prior to setting the wireless functions.

NOTE: This setup wizard can be run in Windows 98SE, Me, 2000 or XP. The following procedures represent Windows XP, but are similar for 98SE/Me/2000.

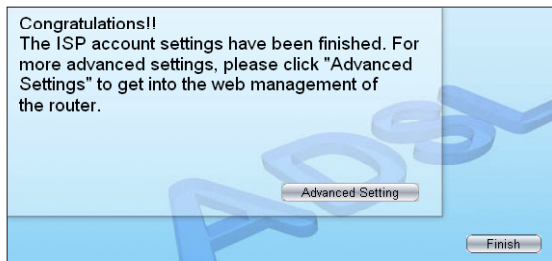
1. Insert the enclosed setup CD (featuring the setup wizard) into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from the "Autorun" folder on the CD.
2. Click on "Setup Wizard" when the initial menu appears on screen. The wizard will search for the router. If the router can't be found, enter the IP address and the password of the router, then click "Next" to search again.



3. The following instructions are based on the successive prompts that will appear. First, select the country in which the router is being installed, then click "Next."
4. Select your ISP.
5. If needed, enter the username and password provided by your ISP, then click "Next."
6. When the Settings Overview screen appears, click "Save," which will reboot the router.

After saving and rebooting, the ISP settings are complete. Click "Finish" to close the setup wizard.

To configure additional settings, click "Advanced Settings" and proceed to the IP Address Setting section in the user manual.



NOTE: To use the router to access the Internet, the IP address of each PC has to be set in the same subnet as the router. This wizard will help to set the proper IP address(es).

NOTE: By default, the router's DHCP server is enabled. If it is disabled before running the setup wizard, the wizard will automatically enable it.

WEB MANAGEMENT CONFIGURATION

Once the PC has obtained an IP address from the router, enter the default IP address **192.168.2.1** (the router's IP address) into the PC's Web browser and press "Enter."

NOTE: If you are unfamiliar with how to obtain an IP address from the router, refer to the IP Address Setting section in the user manual.

The login screen will appear. Enter the username and password, then click "OK" to login. By default, the username is "admin" and the password is "1234."

NOTE: For security reasons, it is recommended that the password be changed as soon as possible.

Click "OK" to continue.

The Home Page screen appears, displaying seven instructional options: Quick Start, Interface Setup, Advanced Setup, Access Management, Maintenance, Status and Help.

ress

http://192.168.2.1

DAP Options

Connect to 192.168.2.1



ADSL Modem

User name: admin

Password:

☐ Remember my password

OK Cancel

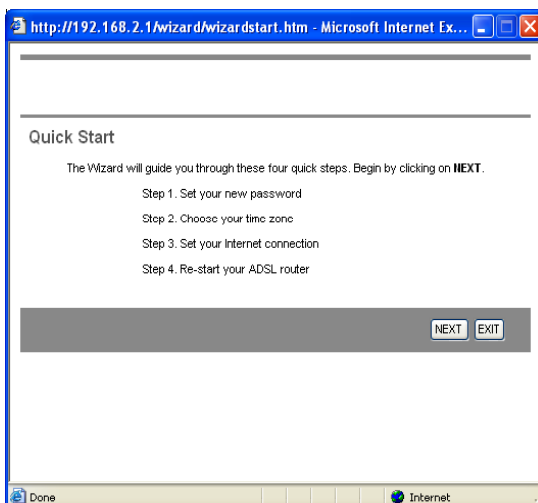
Quick Start	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Quick Start	This ADSL Router is ideal for home networking and small business networking. The 'Quick Start' wizard will guide you to configure the ADSL router to connect to your ISP (Internet Service Provider). The router's easy Quick Start will allow you to have Internet access within minutes. Please follow the 'Quick Start' wizard step by step to configure the ADSL Router. RUN WIZARD						

QUICK START

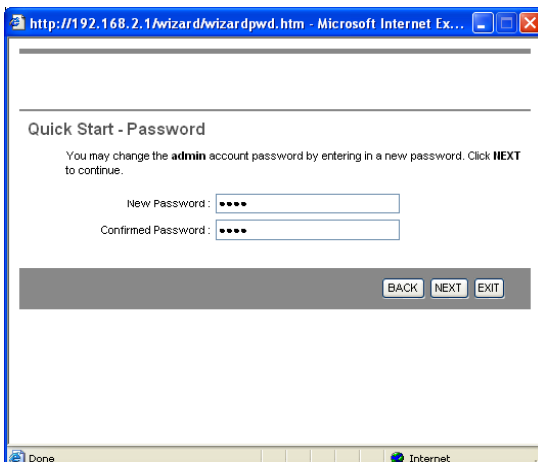
The Quick Start section is designed to get you using the router as quickly as possible. Before configuring the router, check with your ISP (Internet service provider) as to what kind of service is provided (examples are shown in the following table).

PPPoE	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password (and Service Name).
PPPoA	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password.
RFC1483 Bridged	VPI/VCI, VC-based/LLC-based multiplexing to use Bridged Mode.
RFC1483 Routed	VPI/VCI, VC-based/LLC-based multiplexing, IP Address, Subnet Mask, Gateway Address and Domain Name System (DNS) IP Address (a fixed IP Address).

1. Click "Run Wizard" to start the configuration.
2. Click "Next" to continue.



3. Set and confirm the new password; click "Next" to continue.



4. Select the time zone;
click "Next" to continue.

http://192.168.2.1/wizard/wizardTZ.htm - Microsoft Internet Expl...

Quick Start - Time Zone

Select the appropriate time zone for your location and click **NEXT** to continue.

(GMT) Greenwich Mean Time - Dublin, Edinburgh, Lisbon, London

BACK NEXT EXIT

Done Internet

5. Select your Internet connection type (as directed by your ISP);
click "Next" to continue.

http://192.168.2.1/wizard/wizardConType.htm - Microsoft Interne...

Quick Start - ISP Connection Type

Select the internet connection type to connect to your ISP. Click **NEXT** to continue.

☒ **Dynamic IP Address** Choose this option to obtain a IP address automatically from your ISP.

☐ **Static IP Address** Choose this option to set static IP information provided to you by your ISP.

☐ **PPPoE/PPPoA** Choose this option if your ISP uses PPPoE/PPPoA. (For most DSL users)

☐ **Bridge Mode** Choose this option if your ISP uses Bridge Mode.

BACK NEXT EXIT

Done Internet

6. Enter the data provided
by your ISP. For details on
each setting, see the
Interface Setup section in
the user manual. Click
"Next" to continue.

http://192.168.2.1/wizard/wizardPPP.htm - Microsoft Internet Ex...

Quick Start - PPPoE/PPPoA

Enter the PPPoE/PPPoA information provided to you by your ISP. Click **NEXT** to continue.

Username:

Password:

VPI: (0-255)

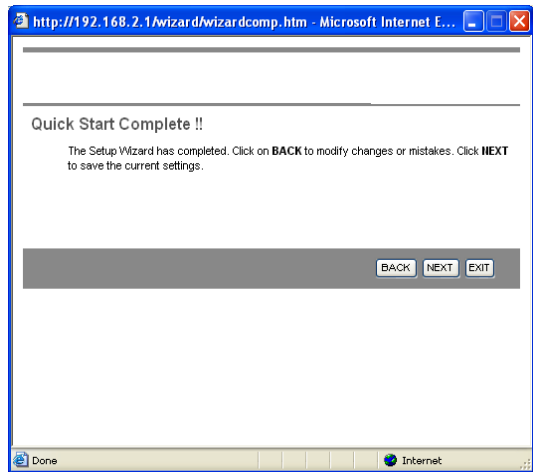
VCI: (1-65535)

Connection Type:

BACK NEXT EXIT

Done Internet

7. Restart your ADSL router. Click "Next" to save the settings and restart the router.



SPECIFICATIONS

Standards

- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- ADSL2+ (ITU G.992.5) up to 24 Mbps
- ADSL2 (ITU G.992.4) splitter-less ADSL, up to 12 Mbps
- ADSL2 (ITU G.992.3) up to 12 Mbps
- ADSL (ITU G.992.2/G.Lite) up to 1.5 Mbps
- ADSL (ITU G.992.1/G.DMT) up to 8 Mbps
- ANSI T1.413, Issue 2 (Asymmetric DSL)

General

- LAN ports: 4 RJ-45 10/100 Mbps data ports
- LAN ports with Auto MDI/MDI-X
- Flash: 2 MB
- Memory: 8 MB SDRAM
- Throughput max.: 24 Mbps downstream, 1 Mbps upstream
- Certifications: FCC Class B, CE Mark, RoHS

Environmental

- Dimensions: 187 (W) x 100 (D) x 30 (H) mm (7.3 x 3.9 x 1.2 in.)
- Weight: 1.0 kg (2.2 lbs.)
- Operating temperature: 0 – 40°C (32 – 104°F)
- Operating humidity: 10 – 90% RH, non-condensing
- Storage temperature: 0 – 60°C (0 – 149°F)

LEDs

- Power
- ADSL Link/Act
- LAN 1-4 Link/Act

Router

- Chipset: Trendchip
- Supported WAN connection types:
 - PPP over Ethernet (RFC 2516)
 - PPP over AAL5 (RFC 2364)
 - Multiple Protocols over AAL5 (RFC 1483/2684)
- NAT:
 - Virtual server
 - Port forwarding
 - DMZ (demilitarized zone)

- Firewall:
 - Access control based on MAC address
 - Domain blocking
 - URL filter
- Supports UPNP (Universal Plug and Play)
- Supports DHCP (client/server)
- Supports VPN pass-through (IPSec, PPTP, L2TP)
- Certifications: FCC Class B, CE Mark, RoHS

Power

- External power adapter: 12 V DC, 0.5 A

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