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> [Actiontec C1000A Modem and Wireless-N Router User Manual](#)

Actiontec C1000A

Actiontec C1000A Modem and Wireless-N Router User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Actiontec C1000A Modem and Wireless-N Router. The C1000A is designed to deliver robust internet connectivity, featuring a powerful Wireless-N radio, Gigabit Ethernet switch, and a dual-core 32-bit processor. It supports a wide range of demanding multimedia applications, including IPTV, media sharing, and online gaming, making it suitable for various home networking needs.

2. PRODUCT OVERVIEW

The Actiontec C1000A integrates a DSL modem and a Wireless-N router into a single device, providing a comprehensive solution for internet access and local network connectivity. It features multiple ports for wired connections and supports wireless communication standards for flexible device integration.



Figure 2.1: Rear Panel of Actiontec C1000A

This image displays the rear panel of the Actiontec C1000A, highlighting its various connectivity ports. From left to right, you can see the green DSL port for connecting to your telephone line, a black Phone port, four yellow Ethernet ports (labeled 1 through 4) for wired network devices, a blue USB port, a small red Reset button, and a black Power input port.

Key Features:

- Integrated DSL Modem and Wireless-N Router
- Gigabit Ethernet ports for high-speed wired connections
- 802.11n Wireless for broad coverage and speed
- Supports WPA, WEP, and WPA2 encryption for enhanced security
- TR-069 Remote Management support for easier management and troubleshooting
- Compatible with CenturyLink DSL services

3. SETUP

Follow these steps to set up your Actiontec C1000A Modem and Wireless-N Router.

1. **Connect to the DSL Line:** Connect one end of the provided DSL cable to the green DSL port on the back of the C1000A and the other end to your telephone wall jack. If you have a phone connected to the same line, use a DSL filter (not always included, may be provided by your ISP).
2. **Connect Power:** Plug the power adapter into the Power port on the back of the C1000A and then into an electrical outlet. The power indicator light on the front of the device should illuminate.
3. **Connect Devices (Optional):**
 - **Wired Connection:** For a wired connection, connect an Ethernet cable from one of the yellow Ethernet ports (1-4) on the C1000A to the Ethernet port on your computer or other network device.
 - **Wireless Connection:** To connect wirelessly, locate the Wi-Fi network name (SSID) and password (WPA/WPA2 Key) printed on the label on the bottom or side of your C1000A. Select this network on your wireless device and enter the password.
4. **Initial Configuration:** Open a web browser on a connected computer. The router should automatically redirect you to the setup wizard or the login page. Follow the on-screen instructions to configure your internet connection, which typically involves entering your DSL username and password provided by your Internet Service Provider (ISP), such as CenturyLink.

4. OPERATING INSTRUCTIONS

Once set up, your C1000A operates as both a modem and a wireless router. Here are some operational aspects:

- **Internet Access:** The C1000A provides internet access to all connected devices, both wired and wireless, after successful DSL synchronization and authentication.
- **Wireless Network:** The device broadcasts a Wi-Fi network (SSID) for wireless devices. You can manage wireless settings, including the network name and password, through the router's web interface.
- **Security:** The C1000A supports WEP, WPA-PSK, and WPA2-PSK security protocols to protect your wireless network from unauthorized access. It is recommended to use WPA2-PSK for the strongest security.
- **Gigabit Ethernet:** The four Ethernet ports support Gigabit speeds (10/100/1000 Mbps), allowing for fast data transfer rates for wired devices like desktop computers, gaming consoles, or network-attached storage (NAS).
- **Remote Management (TR-069):** This feature allows your ISP to remotely manage and troubleshoot your device, which can simplify support and maintenance.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your C1000A.

- **Ventilation:** Ensure the device is placed in a well-ventilated area. Avoid placing it in enclosed spaces or stacking other heat-generating equipment on top of it, as this can lead to overheating and reduced performance.
- **Firmware Updates:** Periodically check the Actiontec support website or your ISP's support page for firmware updates. Keeping the firmware updated can improve performance, add new features, and address security vulnerabilities.
- **Regular Reboots:** Occasionally rebooting the modem/router (by unplugging the power for 30 seconds and plugging it back in) can resolve minor connectivity issues and improve overall stability. Note that after a reboot, you may need to re-enter your network password on some devices.
- **Factory Reset:** In case of persistent issues or when reconfiguring the device, a factory reset can be performed by pressing and holding the Reset button on the back panel for about 10-15 seconds. This will revert all settings to their factory defaults, requiring re-configuration.

6. TROUBLESHOOTING

If you encounter issues with your C1000A, refer to the following troubleshooting tips:

- **No Internet Connection:**
 - Check all cable connections (DSL, Ethernet, Power).
 - Verify that the DSL light on the modem is solid, indicating a stable DSL connection. If it's blinking, there might be an issue with your DSL line; contact your ISP.
 - Ensure you have correctly entered your ISP-provided DSL username and password in the modem's web interface.
 - Reboot the modem/router.
- **Slow Internet Speed:**
 - Ensure your device is connected to the 802.11n wireless network or via a Gigabit Ethernet port.
 - Check for interference if using Wi-Fi. Move the router away from other electronic devices.
 - Perform a speed test to confirm the actual speed you are receiving. Compare it with your subscribed plan.
 - Contact your ISP if speeds are consistently below expectations.
- **Poor Wi-Fi Coverage:**
 - Relocate the router to a central location in your home, away from obstructions.
 - Consider using a Wi-Fi extender for larger homes or areas with weak signals.
- **Cannot Access Router Settings:**
 - Ensure your device is connected to the router (wired or wireless).
 - Try accessing the router's default IP address (e.g., 192.168.0.1 or 192.168.1.1) in your web browser.
 - If you forgot the login credentials, a factory reset will restore the default username and password (usually printed on the device label).

7. SPECIFICATIONS

| Feature | Specification |
|-------------------------------------|--|
| Brand | Actiontec |
| Model Name | C1000A |
| Frequency Band Class | Single-Band |
| Wireless Communication Standard | 802.11bgn |
| Compatible Devices | Personal Computer |
| Recommended Uses For Product | Home |
| Connectivity Technology | Wireless |
| Color | Glossy black |
| Antenna Type | Internal |
| Item Weight | 1.4 Pounds |
| Operating System | Linux |
| Security Protocol | WEP, WPA-PSK, WPA2-PSK |
| Number of Ports | 8 (4 Ethernet, 1 DSL, 1 Phone, 1 USB, 1 Power) |
| Control Method | App (Web Interface) |
| Data Transfer Rate | 40 Megabits Per Second (DSL) |
| LAN Port Bandwidth | 10/100/1000 megabits per second (Gigabit Ethernet) |
| Maximum Upstream Data Transfer Rate | 100 Megabits Per Second |
| RAM Memory Installed | 64 MB |
| Number of Antennas | 2 (Internal) |
| Is Modem Compatible | Yes |
| Connectivity Protocol | Wi-Fi |
| Coverage | Home network (multiple devices and applications) |

8. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation included with your purchase or visit the official Actiontec website. For technical support, troubleshooting assistance, or service-related inquiries, it is recommended to contact your Internet Service Provider (ISP), especially if the device was provided by them (e.g., CenturyLink). They can offer tailored support for your specific service configuration.

