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› [Digi International](#) /

› [Digi International WR21-L52A-DE1-TB Cellular Wireless Router User Manual](#)

Digi International WR21-L52A-DE1-TB

Digi International WR21-L52A-DE1-TB Cellular Wireless Router User Manual

Model: WR21-L52A-DE1-TB

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Digi International WR21-L52A-DE1-TB Cellular Wireless Router. Please read this manual thoroughly before installation and use, and retain it for future reference. This device is designed to provide reliable cellular connectivity for various applications.

2. SAFETY INFORMATION

- **Power Supply:** Use only the power adapter supplied with the device. Using an incorrect adapter may damage the device and void the warranty.
- **Ventilation:** Ensure adequate ventilation around the router. Do not block ventilation openings.
- **Environment:** Avoid exposing the device to extreme temperatures, humidity, direct sunlight, or corrosive environments.
- **Servicing:** Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- **Antennas:** Ensure antennas are securely connected before powering on the device.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Digi International WR21-L52A-DE1-TB Cellular Wireless Router
- Power Adapter
- Antennas (quantity may vary)
- Ethernet Cable
- Quick Start Guide (if included)

If any items are missing or damaged, contact your vendor immediately.

4. PRODUCT OVERVIEW



Image: Front view of the Digi International WR21-L52A-DE1-TB Cellular Wireless Router. This image displays the compact form factor of the device, likely showing ports for antennas, power, and network connections.

The Digi International WR21-L52A-DE1-TB is a robust cellular wireless router designed for reliable and secure connectivity. It features multiple connectivity options and is suitable for various industrial and enterprise applications requiring remote access and data transfer over cellular networks.

5. SETUP

5.1. SIM Card Installation

1. Ensure the router is powered off and disconnected from the power source.
2. Locate the SIM card slot(s) on the device. Refer to the device's physical markings for exact location.
3. Insert the activated cellular SIM card into the slot with the gold contacts facing down and the notched corner oriented correctly. Push until it clicks into place.
4. If applicable, secure the SIM card tray or cover.

5.2. Antenna Connection

1. Identify the cellular antenna ports (typically labeled 'MAIN' and 'DIV' or similar).
2. Screw the provided cellular antennas onto the corresponding ports until finger-tight. Do not overtighten.
3. Position the antennas for optimal signal reception.

5.3. Power Connection

1. Connect the power adapter to the router's power input port.
2. Plug the power adapter into a suitable electrical outlet.
3. The router will power on automatically or may require pressing a power button. Observe the LED indicators for power status.

5.4. Network Connection (Optional)

1. To connect a device via Ethernet, plug one end of an Ethernet cable into an available LAN port on the router.
2. Plug the other end of the Ethernet cable into the network port of your computer or other network device.

6. OPERATING INSTRUCTIONS

6.1. Powering On/Off

- **Power On:** Connect the power adapter. The device will typically power on automatically. Observe the power LED.
- **Power Off:** Disconnect the power adapter from the electrical outlet. For controlled shutdown, refer to the device's web interface or specific documentation for a software shutdown procedure if available.

6.2. Accessing the Web Interface

1. Ensure your computer is connected to the router via Ethernet or Wi-Fi (if enabled).
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. Enter the router's default IP address (e.g., 192.168.1.1 or 192.168.0.1) into the address bar and press Enter. Refer to the Quick Start Guide or device label for the exact default IP address.
4. Enter the default username and password when prompted. These are typically found on a label on the device or in the Quick Start Guide.
5. Upon successful login, you will access the router's configuration interface.

6.3. Basic Configuration

Within the web interface, you can configure various settings:

- **Cellular Settings:** Verify APN settings, signal strength, and connection status.
- **Network Settings:** Configure LAN IP address, DHCP server, and port forwarding.
- **Security:** Change default login credentials, configure firewall rules, and VPN settings.
- **Firmware Update:** Check for and apply firmware updates to ensure optimal performance and security.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the router. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Regularly check the manufacturer's website for firmware updates. Keeping the firmware updated ensures the latest features, security patches, and performance improvements.
- **Environmental Conditions:** Ensure the router is operating within its specified temperature and humidity ranges to prevent overheating or damage.

8. TROUBLESHOOTING

8.1. No Cellular Connection

- Verify the SIM card is correctly inserted and activated with your cellular provider.
- Check antenna connections and ensure they are positioned for optimal signal.
- Log into the web interface to check cellular signal strength and connection status.
- Restart the router.

8.2. Cannot Access Web Interface

- Ensure your computer is directly connected to the router via Ethernet.
- Verify your computer's IP address is in the same subnet as the router (e.g., if router is 192.168.1.1, computer should be 192.168.1.x).
- Try clearing your browser's cache or using a different browser.
- If you forgot the password, a factory reset might be necessary (refer to specific device documentation for this procedure, as it will erase all configurations).

8.3. Slow Connection Speed

- Check cellular signal strength in the web interface. Weak signal can lead to slow speeds.
- Ensure antennas are properly positioned and unobstructed.
- Verify your cellular data plan has not reached its data cap or is being throttled.
- Restart the router and connected devices.

9. SPECIFICATIONS

| Feature | Description |
|-------------------------|--------------------|
| Model | WR21-L52A-DE1-TB |
| Brand | Digi International |
| Connectivity Protocol | Cellular |
| Connectivity Technology | USB |
| Control Method | Remote |
| Special Feature | WPS |
| Compatible Devices | Personal Computer |
| Recommended Uses | Home |
| UPC | 747356312219 |

10. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Digi International website. Technical support is available through the manufacturer's support channels. Please have your product model number (WR21-L52A-DE1-TB) and serial number ready when contacting support.