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Dr. Bott V3220

DrayTek Vigor 3200/3220 Series Multi-WAN Gigabit VPN Router User Manual

Model: Vigor 3220 | Brand: Dr. Bott

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of the DrayTek Vigor 3200/3220 Series Multi-WAN Gigabit VPN Router. Designed for business and professional environments, this router offers robust multi-WAN load balancing and failover capabilities, high-performance Gigabit Ethernet, and secure VPN connectivity, including SSL-VPN, to ensure reliable and efficient network performance.

2. PRODUCT FEATURES

- **Multi-WAN Load Balancing & Failover:** Supports up to 4 Gigabit Ethernet WAN ports and 2 USB WAN ports (for 3G/4G modems) for aggregated bandwidth and connection redundancy.
- **High-Performance Gigabit Ethernet:** Equipped with Gigabit LAN ports for high-speed internal network connectivity.
- **Robust VPN Capabilities:** Supports up to 100 VPN tunnels (IPsec/PPTP/L2TP) and 4 SSL-VPN tunnels for secure remote access and site-to-site connections.
- **Advanced Firewall & Security:** Integrated firewall with content filtering, DoS defense, and object-based management.
- **Bandwidth Management:** Quality of Service (QoS) features to prioritize critical network traffic.
- **USB Ports:** Two USB ports for connecting 3G/4G modems or external storage for network-attached storage (NAS) functionality.
- **Centralized Management:** Compatible with DrayTek's Central Management System (VigorACS 2) for remote management and monitoring.

3. PACKAGE CONTENTS

Please check the contents of your package. If any items are missing or damaged, contact your vendor immediately.

- DrayTek Vigor 3220 Multi-WAN Gigabit VPN Router Unit
- Power Adapter
- Ethernet Cable (RJ-45)
- Quick Start Guide

- Resource CD (optional, may be replaced by online resources)

4. PHYSICAL OVERVIEW

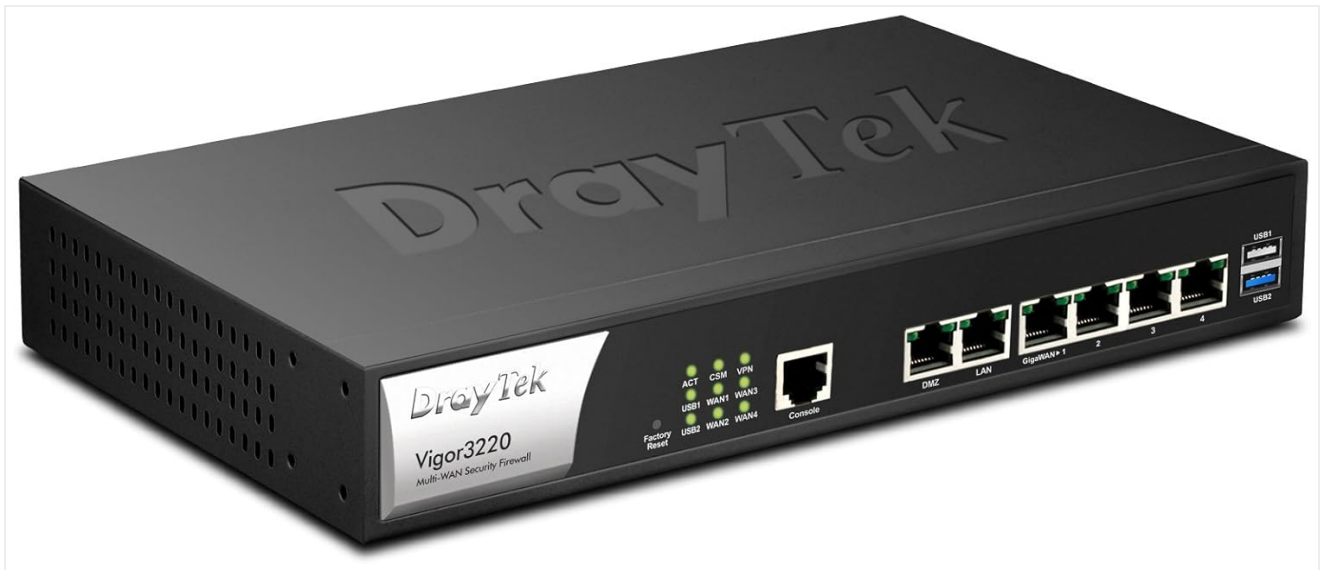


Figure 4.1: Front Panel of DrayTek Vigor 3220 Router

This image displays the front panel of the DrayTek Vigor 3220 router. Visible features include the DrayTek logo and "Vigor3220 Multi-WAN Security Firewall" label on the left. To the right, a series of LED indicators are present: ACT (Activity), CSM (Content Security Management), VPN, USB1, WAN1, WAN3, USB2, WAN2, WAN4. Below these, a "Factory Reset" button is located. Further to the right, a Console port is visible, followed by a DMZ port, four LAN ports (labeled 1-4), and a GigaWAN 1 port. On the far right, two USB ports (USB1 and USB2) are stacked vertically.

4.1. Front Panel Indicators and Ports

- **LED Indicators:**
 - **ACT:** System activity indicator.
 - **CSM:** Content Security Management status.
 - **VPN:** VPN tunnel activity.
 - **USB1/USB2:** Status for USB ports.
 - **WAN1/WAN2/WAN3/WAN4:** Status for respective WAN ports.
- **Factory Reset Button:** Press and hold to restore the router to its default factory settings.
- **Console Port:** For command-line interface (CLI) access via a serial connection.
- **DMZ Port:** A dedicated port for a Demilitarized Zone network segment.
- **LAN Ports (1-4):** Gigabit Ethernet ports for connecting local network devices.
- **GigaWAN 1 Port:** A dedicated Gigabit WAN port.
- **USB Ports (USB1, USB2):** For connecting USB devices such as 3G/4G modems or external storage.

4.2. Rear Panel (General Description)

The rear panel typically includes the power input jack, a power on/off switch, and possibly additional ventilation slots. Specific layout may vary slightly by model revision.

5. SETUP

5.1. Hardware Installation

1. **Power Connection:** Connect the provided power adapter to the router's power input jack and then to a power outlet.

2. WAN Connection:

- Connect your primary internet modem (e.g., DSL, Cable, Fiber ONT) to one of the router's WAN ports (e.g., GigaWAN 1, WAN1, WAN2, WAN3, WAN4) using an Ethernet cable.
- For 3G/4G backup, connect a compatible USB modem to one of the USB ports.

3. **LAN Connection:** Connect your computer or a network switch to any of the router's LAN ports (1-4) using an Ethernet cable.

4. **Power On:** Press the power button on the router. Observe the LED indicators to ensure proper boot-up.

5.2. Initial Configuration

1. **Access Web Interface:** Open a web browser on a connected computer and enter the default IP address of the router (commonly <http://192.168.1.1> or <http://192.168.0.1>). Refer to the Quick Start Guide for the exact default IP and login credentials.
2. **Login:** Enter the default username and password (e.g., admin/admin or admin/password). It is highly recommended to change these default credentials immediately after the first login for security purposes.
3. **WAN Setup Wizard:** Follow the on-screen wizard to configure your internet connection(s) based on your Internet Service Provider (ISP) settings (e.g., PPPoE, DHCP, Static IP).
4. **LAN & Wireless Settings (if applicable):** Configure your local network settings, including IP address range and DHCP server. If your model includes Wi-Fi, configure the wireless network name (SSID) and password.
5. **Save Settings:** Apply and save all configurations. The router may reboot after applying changes.

6. OPERATING

6.1. Basic Operation

- **Internet Access:** Once configured, devices connected to the router's LAN ports or Wi-Fi (if applicable) should have internet access.
- **Monitoring:** Access the router's web interface to monitor WAN status, network traffic, connected clients, and VPN tunnel status.
- **Multi-WAN Management:** Configure load balancing policies and failover settings through the web interface to optimize internet usage and ensure continuous connectivity.

6.2. Advanced Features

- **VPN Configuration:** Set up IPsec, PPTP, L2TP, or SSL-VPN tunnels for secure remote access or site-to-site connections. Refer to the comprehensive user guide available on the DrayTek website for detailed VPN setup instructions.
- **Firewall Rules:** Customize firewall rules to control network access and enhance security.
- **Content Filtering:** Implement web content filtering to manage internet usage.
- **QoS:** Prioritize specific applications or services to ensure optimal performance for critical tasks.

7. MAINTENANCE

- **Firmware Updates:** Regularly check the official DrayTek website for the latest firmware versions. Updating firmware can improve performance, add new features, and fix security vulnerabilities. Follow the provided instructions carefully during the update process.
- **Configuration Backup:** Periodically back up your router's configuration settings. This allows for quick restoration in case of accidental changes or a factory reset.
- **Physical Cleaning:** Keep the router in a well-ventilated area. Gently clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation holes are not obstructed.
- **Password Management:** Change login passwords regularly and use strong, unique passwords for both the web

interface and any wireless networks.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Internet Access	Incorrect WAN settings, modem issue, cable disconnected.	<ul style="list-style-type: none">◦ Check WAN LED indicators.◦ Verify cable connections from modem to router.◦ Review WAN settings in the web interface.◦ Reboot modem and router.
Cannot Access Web Interface	Incorrect IP address, network configuration issue on PC, firewall blocking.	<ul style="list-style-type: none">◦ Ensure PC is set to obtain IP address automatically (DHCP).◦ Verify router's default IP address.◦ Temporarily disable PC firewall.◦ Try a different browser or incognito mode.
VPN Tunnel Not Connecting	Incorrect VPN settings, firewall blocking, network issues.	<ul style="list-style-type: none">◦ Double-check all VPN parameters (IP addresses, pre-shared keys, authentication methods).◦ Ensure necessary VPN ports are open on firewalls.◦ Check router logs for VPN connection errors.
Slow Network Speed	Bandwidth saturation, faulty cables, QoS misconfiguration.	<ul style="list-style-type: none">◦ Monitor network traffic in the router's interface.◦ Test with different Ethernet cables.◦ Review QoS settings to ensure they are not inadvertently limiting bandwidth.◦ Consider upgrading internet plan if consistently saturated.

9. SPECIFICATIONS

Feature	Detail
Brand	Dr. Bott (DrayTek Manufacturer)
Model Name	Vigor 3200 / Vigor 3220
Item Model Number	V3220
WAN Ports	4 x Gigabit Ethernet (configurable as WAN/LAN/DMZ), 2 x USB (for 3G/4G modem)
LAN Ports	4 x Gigabit Ethernet (configurable as WAN/LAN/DMZ)
Total USB Ports	2

Feature	Detail
VPN Tunnels	Up to 100 VPN tunnels (IPsec/PPTP/L2TP), 4 SSL-VPN tunnels
Wireless Type	802.11n (Note: This model is primarily wired, wireless capability may be via external USB adapter or specific variant)
Compatible Devices	Personal Computer, Smartphone, Tablet
Product Dimensions	17.6 x 27.3 x 4.6 cm; 2.46 kg
Recommended Product Uses	Business, Professional

10. WARRANTY AND SUPPORT

The DrayTek Vigor 3200/3220 Series Router comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product package or visit the official DrayTek website for detailed warranty terms and conditions specific to your region.

For technical support, firmware downloads, and additional documentation, please visit the official DrayTek support website. You may also contact your local distributor or reseller for assistance.

Important: Keep your purchase receipt as proof of purchase for warranty claims.