



# Configuration of Dual Fiber Access Router

## Article Overview

Dual-fiber access routers can be configured using LAN-to-LAN connections, static IP assignment, and DHCP management to ensure seamless network integration and optimal performance.

### Step 1: Access Router Admin Panels

Connect a computer to each fiber router via Ethernet or console port. Access the admin interface using the router's default IP address (commonly 192.168.1.1 or 10.0.0.1) and login credentials. Ensure both routers are powered on and have their firmware updated to the latest version.

### Step 2: Assign Static IP Addresses

Assign a unique static IP address to the second router within the same subnet as the primary router but outside the primary router's DHCP range. For example, if the primary router is 192.168.1.1 and its DHCP range is 192.168.1.2-192.168.1.100, set the second router to 192.168.1.101. This prevents IP conflicts and ensures proper routing between devices.

### Step 3: Configure DHCP

Disable DHCP on the second router to avoid multiple DHCP servers on the same network, which can cause IP conflicts. The primary router should handle all IP address assignments. If redundancy is required, configure DHCP failover or reservation on the primary router.

### Step 4: Connect the Routers

Use a fiber or Ethernet connection to link the routers. For LAN-to-LAN configuration, connect a LAN port on the primary router to a LAN port on the secondary router. Avoid using the WAN port on the secondary router unless you intend to create a separate subnet (LAN-to-WAN mode). Ensure the fiber interfaces are properly configured for speed, duplex, and VLAN tagging if applicable.

### Step 5: Configure Wi-Fi and VLANs (if applicable)

If the routers provide wireless access, configure the SSID and security settings. You can use the same SSID and password for seamless roaming or different SSIDs for manual selection. Assign VLANs if the network requires segmentation for guest access, VoIP, or enterprise services.

### Step 6: Test Connectivity



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Verify that devices connected to the secondary router receive IP addresses from the primary router and can access the internet and other network resources. Test fiber link performance, latency, and throughput to ensure the dual-fiber setup is functioning optimally.

## Step 7: Optional Advanced Configurations

- o Link Aggregation: Combine multiple fiber ports for higher bandwidth and redundancy.
- o Load Balancing: Distribute traffic between the two routers if supported.
- o Failover: Configure automatic failover to maintain connectivity if one router fails.
- o QoS: Prioritize traffic for critical applications like VoIP or video streaming. By following these steps, dual-fiber access routers can be integrated into a single network efficiently, providing extended coverage, redundancy, and high-speed connectivity. Proper IP management, DHCP configuration, and fiber link setup are critical to avoid conflicts and ensure optimal performance .

Looking to update your wireless network for better performance or security? Follow these simple steps for configuring

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How do I setup a multi-WAN load balancing and failover on pfSense router with two ADSL or cable or leased-line or

Configure a second router to expand your home network's range, improve Wi-Fi coverage, and support more devices.

Note: ASUS Wireless Router uses a web-based user interface that allows you to configure the router by any web

What is Dual WAN? While enabling Dual WAN, you can select two ISP connections to your router, a primary WAN

Bridging two routers on one network isn't as common as it used to be (thanks to mesh Wi-Fi)

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