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> NETGEAR Nighthawk MK83 Tri-Band Whole Home Mesh WiFi 6 System Instruction Manual

NETGEAR MK83-100CNS

NETGEAR Nighthawk MK83 Tri-Band Whole Home Mesh WiFi 6 System

Instruction Manual

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your NETGEAR Nighthawk MK83 Tri-Band Whole Home Mesh WiFi 6 System. This system is designed to deliver fast and reliable WiFi coverage across large areas, supporting numerous connected devices with advanced WiFi 6 (802.11ax) technology.



Figure 1: NETGEAR Nighthawk MK83 System Components

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- One (1) NETGEAR Nighthawk Tri-band Mesh WiFi 6 Router (MR80)
- Two (2) NETGEAR Nighthawk Tri-band Mesh WiFi 6 Satellites (MS80)
- Three (3) Power Adapters (one for each unit)
- One (1) 2-meter Ethernet Cable
- Quick Start Guide

3. PRODUCT OVERVIEW

The Nighthawk MK83 system consists of one router and two satellites, working together to create a seamless mesh WiFi network.

Router (MR80)

- **WAN Port:** Connects to your modem for internet access.
- **LAN Ports:** Three (3) Gigabit Ethernet LAN ports for wired devices.
- **Sync Button:** Used for pairing with satellites.
- **Power Input:** Connects to the power adapter.
- **LED Indicator:** Displays system status (e.g., power, internet connection, sync status).

Satellites (MS80)

- **LAN Ports:** Two (2) Gigabit Ethernet LAN ports for wired devices.
- **Sync Button:** Used for pairing with the router.
- **Power Input:** Connects to the power adapter.
- **LED Indicator:** Displays system status (e.g., power, connection quality to router).

Get Fast Connections for Wired Devices with 7 Gigabit LAN Ports

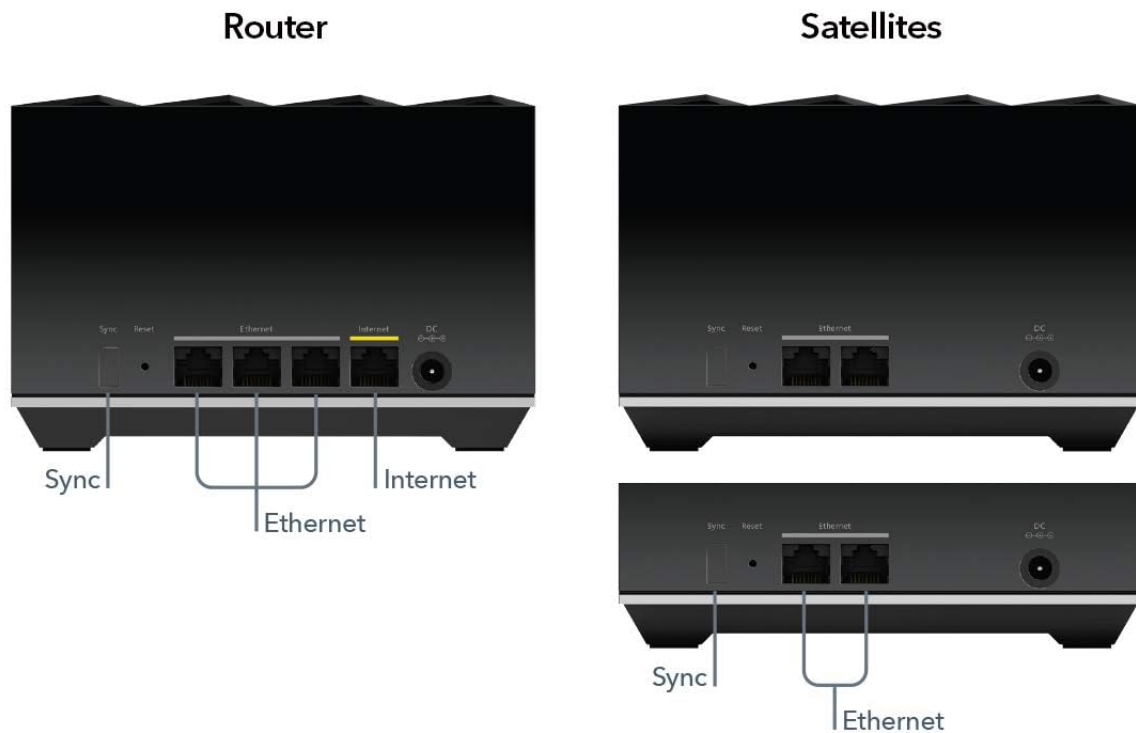


Figure 2: Router and Satellite Ports

4. SETUP

Follow these steps to set up your Nighthawk Mesh WiFi 6 System:

1. **Download the Nighthawk App:** Search for "NETGEAR Nighthawk" in your mobile device's app store and download the application.
2. **Position the Router:** Place the Nighthawk router (MR80) in a central location near your existing modem.
3. **Connect the Router:**
 - Disconnect your modem from power.
 - Connect one end of the provided Ethernet cable to the yellow WAN port on the Nighthawk router.
 - Connect the other end of the Ethernet cable to your modem's Ethernet port.
 - Connect the router's power adapter to the router and plug it into a power outlet.
 - Power on your modem, then power on the Nighthawk router. Wait for the router's LED indicator to turn solid white or blue.

4. **Position the Satellites:** Place the two Nighthawk satellites (MS80) in locations that provide optimal coverage, typically between the router and areas with weak WiFi signals. Ensure they are within range of the router and each other.
5. **Connect the Satellites:** Connect each satellite's power adapter to the satellite and plug it into a power outlet. Wait for the satellite's LED indicator to turn solid white or blue.
6. **Complete Setup with App:** Open the Nighthawk App on your mobile device and follow the on-screen instructions to configure your mesh WiFi network, including setting up your WiFi name (SSID) and password.

The Nighthawk App Makes it Easy to Setup, Monitor, and Protect Your Household



Simple setup
and monitoring



NETGEAR Armor™
all-in-one internet security*



Smart Parental
Controls*

*requires subscription after 30-day free trial

Figure 3: Nighthawk App for Easy Setup

5. OPERATING THE SYSTEM

Once set up, your Nighthawk MK83 system provides a single, unified WiFi network name (SSID) for seamless roaming throughout your home. Devices automatically connect to the strongest signal as you move.

Key Features:

- **Tri-Band WiFi 6:** Utilizes three WiFi bands (2.4 GHz, 5 GHz, and a dedicated 5 GHz backhaul) to deliver combined speeds up to AX3600 (3.6 Gbps) and support over 40 devices simultaneously.
- **Extensive Coverage:** Provides reliable WiFi coverage up to 6,750 sq. ft., eliminating dead zones.
- **Nighthawk App Control:** Use the app to manage your network, view connected devices, run speed tests, and access security and parental control features.
- **NETGEAR Armor:** Integrated security solution powered by Bitdefender, offering protection against online threats for all connected devices (30-day free trial included).
- **Smart Parental Controls:** Manage internet access, set time limits, and filter content for family members (30-day free trial included).

7 Powerful Streams Support More Devices Simultaneously



Figure 4: Multiple Devices Connected to the Mesh System

6. MAINTENANCE

To ensure optimal performance and longevity of your Nighthawk MK83 system:

- **Placement:** Ensure units are placed in open areas, away from obstructions and other electronic devices that may cause interference.
- **Firmware Updates:** Regularly check for and install firmware updates through the Nighthawk App. Updates often include performance improvements and security enhancements.
- **Cleaning:** Keep the units clean and free of dust to prevent overheating. Use a soft, dry cloth. Do not use liquid cleaners.
- **Restart:** Periodically restart your router and satellites (unplug from power for 10 seconds, then plug back in) to refresh network connections.

7. TROUBLESHOOTING

If you encounter issues with your Nighthawk MK83 system, try the following:

- **No Internet Connection:**
 - Check all cable connections between your modem, router, and power outlets.
 - Restart your modem and router.
 - Verify your internet service provider (ISP) connection is active.
- **Weak WiFi Signal or Dead Zones:**
 - Relocate satellites closer to the router or to areas with poor coverage.
 - Ensure units are not blocked by large objects or electronic devices.
 - Check for firmware updates.
- **Devices Not Connecting:**
 - Verify the correct WiFi network name (SSID) and password.
 - Restart the device attempting to connect.
 - Check the Nighthawk App for device management settings that might be blocking access.
- **LED Indicator Status:** Refer to the Quick Start Guide or the Nighthawk App for detailed explanations of LED colors and their meanings.

8. SPECIFICATIONS

Brand	NETGEAR
Model	MK83-100CNS
WiFi Speed	AX3600 (3.6 Gbps)
WiFi Coverage	Up to 6,750 sq. ft.
Device Capacity	40+ devices
WiFi Connectivity	WiFi 6 (802.11ax), Tri-Band (backwards compatible with 802.11ac/n/a/g/b)

Wired Connectivity (Router)	3 Gigabit Ethernet LAN ports, 1 Gigabit Ethernet WAN port
Wired Connectivity (Each Satellite)	2 Gigabit Ethernet LAN ports
Processor	Quad-core 1.5Ghz
Memory	256MB Flash, 512MB RAM (Router and Satellites)
Security Features	NETGEAR Armor (30-day free trial)
Parental Controls	NETGEAR Smart Parental Controls (30-day free trial)

Technical Specs

ROUTER

3.62 in.

Sync Internet

3 Gigabit Ethernet ports

5.51 in.

SATELLITES

Sync 2 Gigabit Ethernet ports

WIFI SPEED
3.6Gbps, AX3600 WiFi 6

WIFI COVERAGE
Up to 6,750 sq. ft., 40+ devices

INTERNET PLANS
Supports any internet service up to 1Gbps

WIFI CONNECTIVITY
WiFi 6, 802.11ax, backwards compatible with 802.11ac/n/a/g/b

WIRED CONNECTIVITY
Router: 3 Gigabit Ethernet LAN ports, 1 Gigabit Ethernet WAN port
Each Satellite: 2 Gigabit Ethernet LAN ports

PROCESSOR, MEMORY
Quad-core 1.5Ghz processor, 256MB flash, 512MB RAM (Router and Satellites)

SECURITY AND PARENTAL CONTROLS
NETGEAR Armor all-in-one internet security, NETGEAR Smart Parental Controls

Figure 5: Extensive WiFi Coverage

9. WARRANTY AND SUPPORT

Your NETGEAR Nighthawk MK83 system is backed by a **1-year limited hardware warranty**. For technical support, warranty claims, or additional assistance, please refer to the NETGEAR support website or contact their customer service. The Nighthawk App also provides direct access to support resources and diagnostics. For the most up-to-date support information, visit the official NETGEAR support page or use the support section within the Nighthawk App.

