Adtran 854-v6
Wi-Fi 6 Router

Setup Guide

The 854-v6 is a carrier-class, dual-band, Wi-Fi 6 2.5G Router designed to deliver top-end Wi-Fi 6 performance, Gigabit throughput, and advanced service delivery capabilities

To contact us for technical support and general inquiries:

Visit https://nexicom.net
Online Knowledge Base: https://kb.nexicom.net

Phone: 705-775-6394 or 1-888-639-4266
By Email: support@nexicom.net

Monday–Friday: 8 am–10 pm
Saturday: 8 am–5 pm
Sunday: 9 am–5 pm

Overview
The 854-v6 Wi-Fi 6 router is a carrier-class, 802.11ax Ethernet residential gateway with Dual-Band Mesh, 2.5GbE WAN Port, and integrated voice ports. The 854-v6 is built to extend fibre and multi-gigabit performance for buffer-free 4K/8K streaming and gaming, connect 100s of smart home devices and deliver consistent coverage across the home and business. The device enables a consistent multi-user, multi-gigabit experience across the home property – enabling a transformational Wi-Fi experience.

Smarter, Consistent Whole Home Wi-Fi
The Adtran 854-v6 Dual-Band Wi-Fi 6 router is a true multi-gigabit Ethernet gateway delivering up to 3.6 Gbit/s aggregate throughput for access and backhaul. The Adtran 854-v6 Dual-Band Wi-Fi 6 router includes two integrated voice ports to support Digital Phone services. Combined with innovative H-Pol Omni antennas, the Adtran 854-v6 Dual-Band Wi-Fi 6 router delivers 360° coverage anywhere in the home, office, or outdoor spaces.

Speed to Burn and Room to Grow
The 854-v6 boasts a Multi-core ARM® Cortex processor with the power to route IPv4/v6 traffic up to 3.6Gbps bi-directionally and plenty of processing power left over.

Performance Personified
Getting the best Wi-Fi does not mean placing it in a corner closet or a shelving unit behind a glass picture frame. The Adtran 854-v6 Dual-Band Wi-Fi 6 router offers an innovative space-age design that looks great on the desk or shelf while delivering an exceptional Wi-Fi experience to all users and devices.

Benefits

- True Multi-Gigabit Wi-Fi 6 Ethernet Gateway with up to 3.6 Gbit/s Capacity

- High-Performance Dual-Band Mesh Wi-Fi for Coverage Across the Home

- 4x4 Simultaneous Streams with MU-MIMO for Gaming and 4K Streaming

- H-Pol Omni Antennas Delivering 360 Coverage

- Powerful Wi-Fi Delivering Consistent, High-Performance Connectivity to All Users and Devices

- Integrated Voice Ports for Digital Phone Services

What's Included in the Box?

- Adtran 854-v6 - Wi-Fi Router
- AC Power Adapter
- Ethernet Cord

WPS
WPS Buttons are disabled on the Adtran 854-v6 for security reasons.

LED
These will light up to indicate the state of the router.

LAN Ports
4 x 10/100/1000BASE-T Ports with RJ-45 Connectors to connect up to four network devices to a Gigabit LAN.

WAN Port
1 x 2.5GBASE-T Port with RJ-45 Connector. This port is used to receive an Internet connection to the router itself.

Tel 1/2
This port is used for customers with Nexicom Digital Phone service.

Power Adapter Port
This port is used to receive power from the AC Power Adapter.

2

Hardware Setup

Connect the power adapter to the power port. Attach the power adapter to Surge Protection Device. Connect an Ethernet cable from your modem or ONT to the WAN port on the Adtran 854-v6. The LED on the front of the device will light up blue, change to green, and finally turn white when the device has an Internet connection. It is recommended that an external AC Surge Protection Device be installed at the AC input connection to the local AC-Powered product. The Surge Protection device should provide L-N, L-G, and N-G protection. It is also recommended that the device contains a visual 'GOOD' indicator.

Understanding the LED Status

The back panel LED lights are shown below.
This information can be used to check the status of the device and its connections.

Fibre /WAN

Depending on whether your device receives its Internet from the WAN port (most likely) or from a direct Fibre cable to the device, will determine which of these 2 LEDs will actually light up.

Steady Green means the connection is active, flashing means data is transferring.

2.4GHz / 5GHz

These LEDs indicate the state of the wireless connection on the device.

Steady Green means the Wi-Fi radio is working, flashing means it is transferring data, and off means the Wi-Fi connection is down.

WPS

This LED will always be off as it has been disabled for security reasons.

Tel 1/2

The Tel 1/2 status LED indicates the state of the voice connections on the gateway.

Steady Green means the Voice connection is active, flashing means voice data is transferring, and off means voice connections are not active.
If you have Fibre Phone service these LEDs will not light up.
If you have Digital Phone service these LEDs will be active.
Which type of phone service is available will depend on your location.
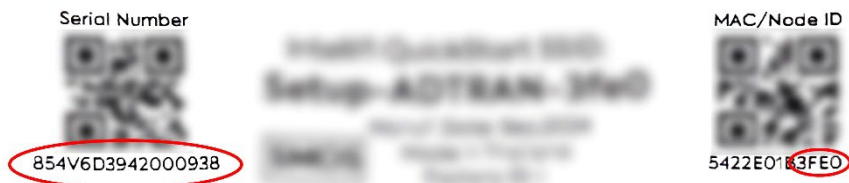
Wi-Fi Set-up

The Adtran 854-v6 has Dual Band 802.11ax wireless capabilities to provide unprecedented Wi-Fi coverage.

The SSID (sometimes referred to as a network name) that will broadcast to your wireless devices (laptop, cell phone, tablet, smart tv etc.) will be in the format of the word "Nexicom-_ _ _ _" followed by the 4 last digits of the MAC Address of the Adtran router.

Your wireless password can be found on the bottom of the device or on the last page of this Setup Guide. Your wireless password is the serial number of your device.

Scan the QR code on the last page of this Setup Guide with your mobile device to automatically add the SSID and Password to your device. Do not scan the QR codes on the bottom or back of the device.

Serial Number

854V6D3942000938

MAC/Node ID

5422E01B3FEO

Manually Connecting to Wi-Fi

To manually connect a device to your wireless network

1. Navigate to the Wi-Fi settings screen on your device.
2. Select the SSID (Nexicom-_ _ _ _) for your Adtran 854-v6.
3. Enter your wireless password found on the bottom of the device or on the last page of this Setup Guide. Your wireless password is the serial number of your device.

Be sure to enter capital letters as the password is case-sensitive.

Frequently Asked Questions

Q: Is the wireless network always on?
A: Yes.

Q: Is the Wireless Security always on?
A: Yes, the unit is set up with "WPS2-PSK/WPA3-SAE Mixed Mode" Wi-Fi security. The SSID will be in the format of the word "Nexicom-_ _ _ _" followed by the 4 last digits of the MAC Address of the Adtran router. Your wireless password can be found on the bottom of the device or on the last page of this Setup Guide. It is the serial number of your device.

Q: Why is my Wi-Fi signal strength lower than I expected?
A: A wireless signal degrades with distance and obstructions. Common signal impairments include walls, ceilings, metal, cinder blocks, fluorescent lights, microwaves, furniture, etc. While the Adtran has been optimized to provide wireless coverage for most applications, there may be dependencies based on the location where the device is installed. Please contact Nexicom Technical Support if you find the need to upgrade your Wi-Fi as there are options available.

Household Appliance	Recommended Minimum Distance
Microwave ovens	30 feet / 9 meters
Baby monitor	20 feet / 6 meters
Cordless phone	20 feet / 6 meters
Bluetooth devices	20 feet / 6 meters
Home Automation	20 feet / 6 meters

Q: Who do I contact for Service and Support?
A: Call Nexicom Technical Support at 705-775-6394 or Toll Free 1-888-639-4266.

CAUTION!

- Ensure that the 854-v6 does not come in contact with water or other liquids.

- Ensure that the 854-v6 is not located in direct sunlight or next to any thermal obstructions.

- If the device fails to power up, or it malfunctions, first verify that the power cords are connected securely and then power it off and on again. If the problem persists, contact the Nexicom Technical Support at 705-775-6394 or toll free 1-888-639-4266.

Troubleshooting

If your Internet service stops working, do the following.

Unplug the Adtran 854-v6 from the power.
Wait for 30 seconds and plug it back in.
Wait for 2 minutes and test your Internet.

If you are still experiencing issues, please call the Nexicom Technical Support at 705-775-6394 or Toll Free 1-888-639-4266.

Notes

Above is a sticker with your new device's Wi-Fi SSID and password printed in the middle. The device will broadcast SSIDs or network names that you will see as an available Wi-Fi network on your devices.

OR

To simplify the Wi-Fi setup on a mobile device such as a cell phone or tablet, we are also including a QR code which can be scanned using your device's camera and the SSID and password will automatically be setup on the device.

Please keep this in a safe place to protect your network information.

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