# For slow speed on main Nova

**1. Check the Internet Seed Through Your Nova:**

First, ensure that you have properly tested the internet speed and understand the results by following this FAQ:

How Do I Test the Speed of my Nova Network?

**2. Check the Speed From Your ISP:**

Temporarily unplug the main Nova from your modem or Gateway. Then connect a laptop or PC directly to the ISP Gateway/Modem and Perform a Speed Test. The speed test should report speeds similar to what you expect from your ISP based on your Plan.

**Slow Ethernet Speed**

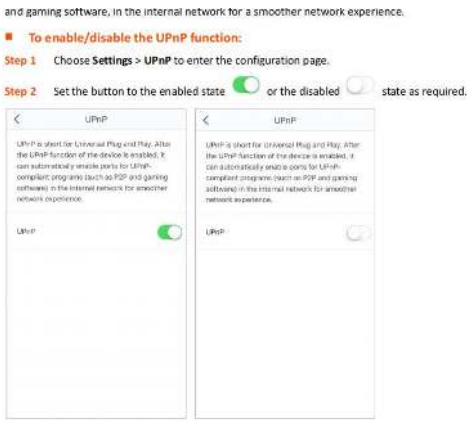
1. Replace the Ethernet cables between the ISP modem, main Nova, and laptop with new cables rated as CAT5E or above, then test the speed on the laptop again.

2. Set a node Nova as The Main Nova: Try using a Different Nova from your Network as the Main Nova to test.

**Slow Wireless Speed:**

1. Go to My wifi> Tap your client(s)> Speed limit. Make sure there is no limit set up on the client device.

2. Turn off the **UPNP feature** in the Tenda WiFi App Under: Settings > Advanced > UPNP




3. Try different speed test servers or platforms to compare since some specific servers cannot reach the full speed for wireless tests.

4. Download a Wi-Fi analyzer tool on your phone to check wireless channel interference. Crowded Wi-Fi channels will cause a severe decrease in performance.

# Why is my node Nova unit not getting the same speed as the main Nova?

The purpose of a Nova Mesh system is to expand Wi-Fi coverage, provide a better mesh experience, and improve the speed at some points. You might not be able to get the same speed as the main Nova when you are using the satellite unit, especially when your broadband is extremely high (e.g. higher than 500Mbps).

Assuming the main Nova could reach full 500Mbps at wireless, the satellite usually won't reach that high if you are not using Ethernet backhaul. Because of the distance and limitation of Wi-Fi, we usually get lower speed at the position of satellite units when comparing to the main.

Due to the working pattern and protocol/regulation of Wi-Fi technology, the more wireless hops, the slower the speed would be.

This rule applies to any kind of mesh or extender system.

However,there will be no speed difference if you are wiring/connecting Nova units with Ethernet cables. With Ethernet backhaul, all Nova units' speed would be the same.

Moreover, if you want higher speed on a specific Nova unit, use a wired connection on it.