

101-732 – NanoStation Loco M5 – P2P Setup Guide

Introduction

This tech note will show you how to setup the 101-732 as a Point to Point network.

This mode will be ideal for connecting an intercom door station at one access point and then the room station at the other access point, or even a CCTV camera at one access point and the NVR at the other access point.

Notes

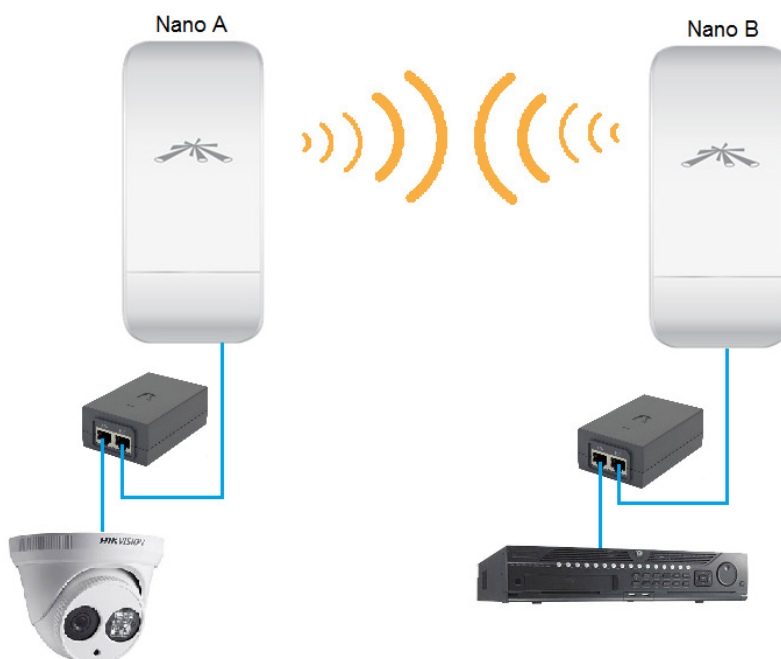
You won't be able to scan / see the access point using a Smartphone or computer once it has been setup. This is a secure hidden network.

Hardware Required

- Computer with a working hardwired LAN connection
- 2 x 101-732 NanoStation Loco M5
- LAN Cable

Quick Setup Guide

In this quick setup guide we are going to refer the units as Nano A and Nano B.

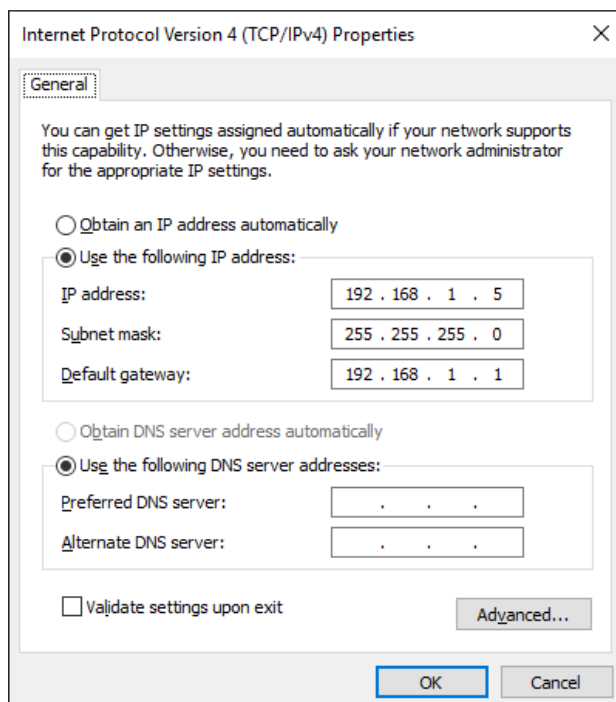


Setting Up Nano A

1. Connect your computer to the LAN port on the PoE and the NanoStation to the PoE port and connect the PoE Adaptor to the wall socket.



2. Change your computer's IP address so it has a static IP address of 192.168.1.5 from the network and sharing center on your computer so it looks similar to the following:



3. Open a web browser on your computer and navigate to <http://192.168.1.20>

When prompt to do so, enter the username and password to login.

Default login is:

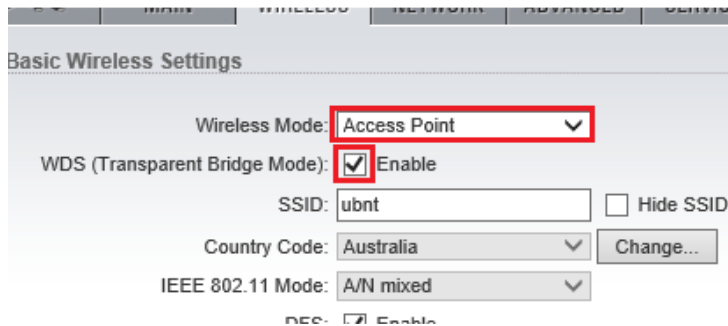
Username: ubnt

Password: ubnt

4. Once logged in click on the 'Wireless' tab.



5. Change the Wireless Mode to be 'Access Point', and tick the WDS checkbox.

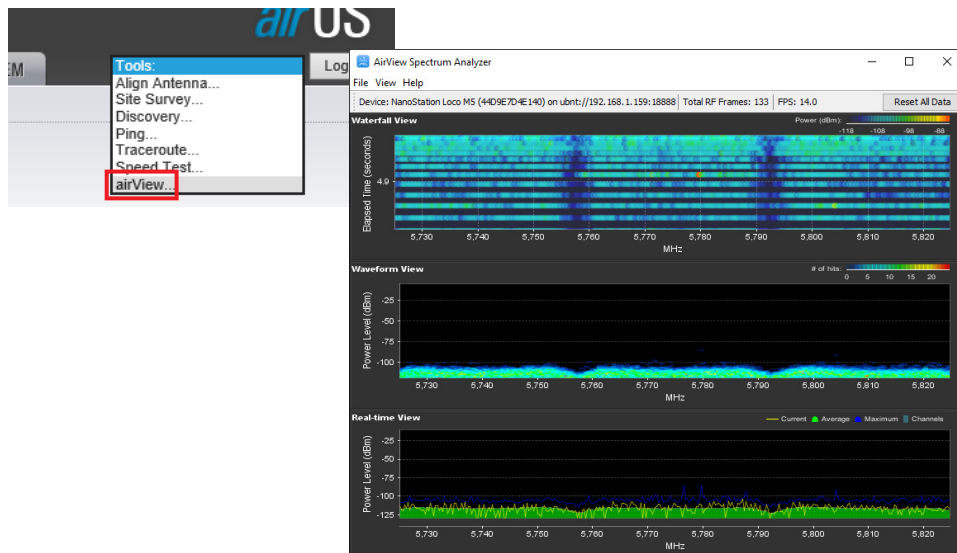


6. Set a unique SSID for your wireless bridge.

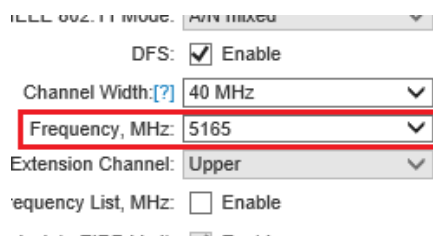
In my example I am using ubnt as the name, but recommend to use something more unique.



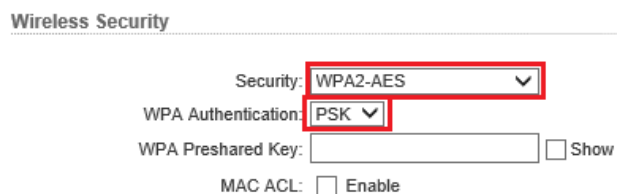
7. It's recommend to run the 'AirView' tool to select the best wireless channel.



8. Set the frequency based on your results from step 7.

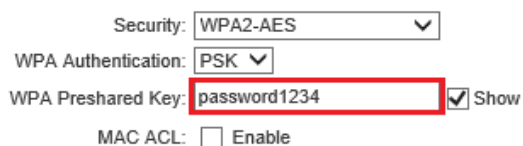


9. Set the security type to be WPA2-AES with the WPA Authertication to be PSK.



10. Set a password/preshared key for this access point.

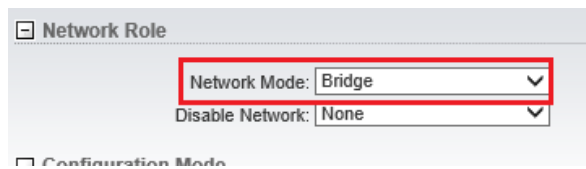
In my example I am going to use password1234



11. Click on the 'Change' button down the bottom of the page to save the values.

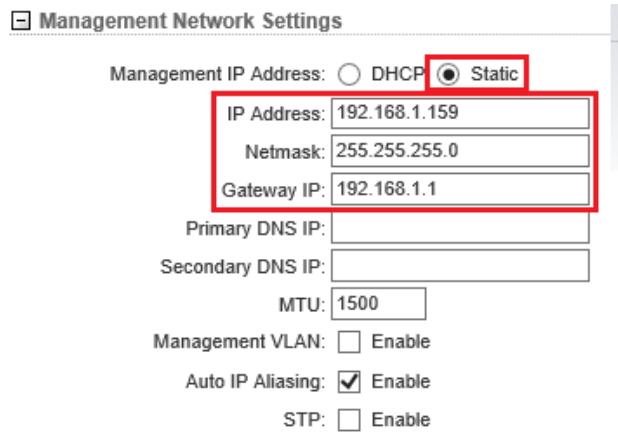
12. Once you click on 'Change' button, click on the 'Network' tab.
(no need to click Apply just yet)

13. Set the network mode to be 'Bridge'.



The screenshot shows the 'Network Role' section of a configuration interface. It contains two dropdown menus: 'Network Mode' is set to 'Bridge' and 'Disable Network' is set to 'None'. Both dropdown menus are highlighted with a red rectangular box.

14. Set a Static IP address for this NanoStation like below:



The screenshot shows the 'Management Network Settings' section. The 'Management IP Address' is set to 'Static' (indicated by a selected radio button). Below this, the 'IP Address' is '192.168.1.159', 'Netmask' is '255.255.255.0', and 'Gateway IP' is '192.168.1.1'. These three fields are grouped together and highlighted with a red rectangular box. Other settings include 'Primary DNS IP', 'Secondary DNS IP', 'MTU: 1500', 'Management VLAN' (unchecked), 'Auto IP Aliasing' (checked), and 'STP' (unchecked).

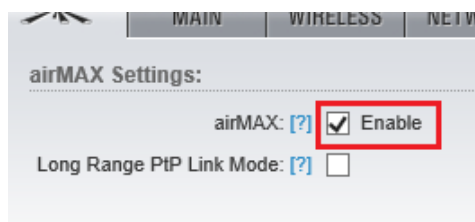
15. Click on the 'Change' button down the bottom of the page to save the values.

16. Once you click on 'Change' button, click on the first tab and long the top. (no need to click Apply just yet)



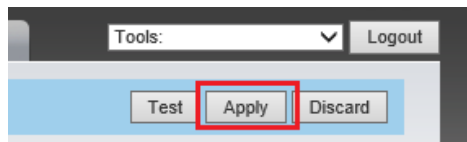
The screenshot shows the top navigation bar of the NanoStation M5 interface. It includes a logo on the left and three tabs: 'MAIN', 'WIRELESS', and 'NETW'. The 'MAIN' tab is highlighted with a red rectangular box. Below the navigation bar, the 'Network Role' section is visible, showing 'Network Mode' set to 'Bridge'.

17. Enable (tick) the airMAX checkbox and then click change.



The screenshot shows the 'airMAX Settings' section. The 'airMAX' checkbox is checked and labeled 'Enable', and this entire row is highlighted with a red rectangular box. Below it, the 'Long Range PIP Link Mode' checkbox is unchecked.

18. Click the Apply button to save the settings to the NanoStation.



Leave this unit powered up.



Leave this unit powered up once it has been configured.

Setting Up Nano B

1. Connect your computer to the LAN port on the PoE and the NanoStation to the PoE port and connect the PoE Adaptor to the wall socket.



2. Open a web browser on your computer and navigate to <http://192.168.1.20>

When prompt to do so, enter the username and password to login.

Default login is:

Username: ubnt

Password: ubnt

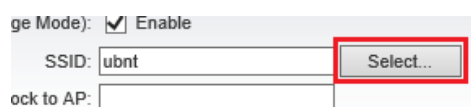
3. Once logged in click on the 'Wireless' tab.



4. Change the Wireless Mode to be 'Station', and tick the WDS checkbox.



5. Click the 'Select' button next to the SSID text field and a popup window will appear.



6. Select the Nano A that we just setup from the list and click on 'Lock to AP'

MAC	SSID	Model	Channel	Security	Power	Signal
44:D9:E7:D4:E1:40	ubnt	NanoStation Lo	802.11n airMAX	WPA2	-44 / -96	5.165 / 33

Selectable SSID's must be visible and have compatible channel bandwidth and security settings.

7. Enter in the wireless security settings that you used for Nano A.

Security:
WPA Authentication:
WPA Preshared Key: Show

8. Click on the 'Change' button down the bottom of the page to save the values.

9. Once you click on 'Change' button, click on the 'Network' tab.
(no need to click Apply just yet)

10. Set the network mode to be 'Bridge'.

Network Role

Network Mode:
Disable Network:

Configuration Mode

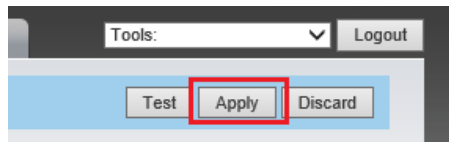
11. Set a Static IP address for this NanoStation like below:

Management Network Settings

Management IP Address: DHCP Static
IP Address:
Netmask:
Gateway IP:
Primary DNS IP:
Secondary DNS IP:
MTU:
Management VLAN: Enable
Auto IP Aliasing: Enable
STP: Enable

12. Click on the 'Change' button down the bottom of the page to save the values.

13. Click the Apply button to save the settings to the NanoStation.



Testing

Now that the Nano A and Nano B have been setup, you should be able to plug a device into one of the Nano devices and view that device while connected to the other Nano device.

For example: Plug a camera into Nano A, then using Nano B connect it to a NVR or computer and view that camera.

Troubleshooting

Connect your computer to Nano A and see if you can ping both Nano A and Nano B.

If you can't ping both devices then move both NanoStations so they are within 1-5 meters and try and ping again. If it lets you ping both devices then you know the NanoStations have been setup correctly and you most likely have a wireless range issue.

If you still can't ping both devices then you have a configuration issue and recommend you default both units and run through this quick guide again.

Additional Information:

Customer Service

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YouTube: www.youtube.com/nesscorporation

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