Connecting a G1100 router as primary to a Actiontec MI424-WR router as a bridge

Reason:

Downstairs wireless devices have poor signal to the router upstairs. As a result, browsing the internet was much slower. Therefore, the solution was to use an Actiontec MI424-WR, my original router, and connect it to the upgraded G1100 router through coax.

Topology:

Internet <- - -> ONT <- ETHERNET AND COAX CABLE -> G1100 ROUTER <- COAX -> MI424WR <- -> WI-FI devices

Notes:

Firmware Version: 20.21.10
Hardware Version: F

1ghz coax splitter is optional. Eg. Say for instance you have a settop box and a router located in the living room. You want the settop box to work as well as the router. Therefore a splitter is required.

Untested lan ports on the MI424WR router.

There may be a reboot when following these steps. Proceed with the reboot

MI424WR Configuration

1. Initially the MI424 router is not connected anything except a network cable connected to one of the lan port behind the MI424 router and to a pc.
2. Logon to your MI424WR by open a browser and typing in http://192.168.1.1
3. Type in your username and password. If you don't know the username and password. Do a hard reset by using a pen or paperclip to press the reset button in back of the MI424 router. Router must be on and the reset button hold down for 10 seconds. You'll be ask to insert a new password. Write it down.
4. Click on 'My network'. Located at the top
5. Click on 'Network Connections'. Located at the left

6. Click on 'Network (home/Office) In Network Connections. See highlighted image below.

7. Click on 'Settings' Located at the bottom

8. Under Bridge. Place a check mark next to Ethernet, Coax, and Wireless Access Point.

Network (Home/Office) Properties

NOTE: Only advanced technical users should use this feature.

General	
Status:	Connected
When should this rule occur?:	Always
Network:	Network (Home/Office) ▼
Connection Type:	Bridge
Physical Address:	00:26:b8:56:61:6e
MTU:	Automatic ▼ 1500
Internet Protocol	Use the Following IP Address ▼
IP Address:	192 .168 .1 .200
Subnet Mask:	255 .255 .255 .0

Bridge

Name	VLANs		Status	STP	Action
📟 Network (Home/Office)	Disabled	📄	Connected		
☑ 🔌 Ethernet	Disabled	📄	Disconnected	☑	📄
☑ 🔌 Broadband Connection (Ethernet)	Disabled	📄	Cable Disconnected	☑	📄
☑ 📶 Coax	Disabled	📄	Connected		📄
☐ 📶 Broadband Connection (Coax)			Disabled		📄
☑ 📡 Wireless Access Point	Disabled	📄	Connected	☐	📄

DNS Server	Use the Following DNS Server Addresses ▼
Primary DNS Server:	0 .0 .0 .0
Secondary DNS Server:	0 .0 .0 .0
IP Address Distribution	Disabled ▼
Routing Mode:	Route ▼
Device Metric:	4
☐ Default Route	

Routing Table

Name	Destination	Gateway	Netmask	Metric	Status	Action
New Route						📄

Additional IP Addresses

IP Address	Subnet Mask	Action
New IP Address		📄

[Apply] [Cancel]

In the image above I have Broadband Connection (Ethernet) selected because I was using it initially. You are not required to have it checked marked as noted in Step 8.

9. Also in 'IP Address Distribution' select 'Disabled' in the dropdown box.
10. Click 'Apply'. Located at the bottom.
11. Back in 'Network Connections'. Select 'Wireless Access Point'
12. Click on 'Settings'
13. Make sure 'Network' is 'Network (Home/Office)' in the dropdown box.
14. Click 'Apply'
15. Then click 'Apply' one more time.
16. You should be in Network Connections. Click on 'Coax'.
17. Click on 'Settings'

18.I didn't change anything in Coax properties. Here's my configuration.

Coax Properties

NOTE: Only advanced technical users should use this feature.

General

Status:	Connected
When should this rule occur?:	Always
Network:	Network (Home/Office) ▾
Connection Type:	Coax
Physical Address:	00:26:b8:56:61:70
MTU:	Automatic ▾ 1500

Coax Link

Channel:	1 - 1150MHz ▾
Privacy:	☐ Enabled
Password:	
CM Ratio:	20 ▾
DNS Server	Use the Following DNS Server Addresses ▾
Primary DNS Server:	0 . 0 . 0 . 0
Secondary DNS Server:	0 . 0 . 0 . 0
IP Address Distribution	DHCP Server ▾
Start IP Address:	192 . 168 . 2 . 2
End IP Address:	192 . 168 . 2 . 254
Subnet Mask:	255 . 255 . 255 . 0
WINS Server:	0 . 0 . 0 . 0
Lease Time in Minutes:	1440

☑ Provide Host Name If Not Specified by Client

IP Address Distribution According to DHCP Option 60 (Vendor Class Identifier)

Vendor Class ID	IP Address	MAC Address	QoS
Routing Mode:	Route ▾		
Device Metric:	4		

☐ Default Route

Additional IP Addresses

IP Address	Subnet Mask	Action
New IP Address		📝

Coax Connection Stats:	Go to LAN Coax Stats

Apply   Cancel

19. Click 'Apply' if you changed anything. Skip step 18 if you didn't make any changes.
20. Then click 'Apply' one more time.
21. You should be in Network Connections. Click on ' Broadband Connection (Coax)'
22. Click on 'Settings'

23. For 'IP Address Distribution' make sure this is 'Disabled' by selecting the dropdown box.

Broadband Connection (Coax) Properties

NOTE: Only advanced technical users should use this feature.

General	
Status:	Disabled
When should this rule occur?:	Always
Network:	Broadband Connection ▼
Connection Type:	Coax
Physical Address:	▬ ▪ ▬ ▬ ▪ ▪
MTU:	Automatic ▼ 1500

Coax Link	
Auto Detection:	⦿ On ○ Off
Privacy:	☑ Enabled
Password:	▓▓▓▓▓
CM Ratio:	20 ▼

WAN Coax Connection Speeds	
Router Tx (Mbps):	0.00
Router Rx (Mbps):	0.00
Internet Protocol	Obtain an IP Address Automatically ▼
☐ Override Subnet Mask:	0 . 0 . 0 . 0
DNS Server	Obtain DNS Server Address Automatically ▼
IP Address Distribution	Disabled ▼
Routing Mode:	NAPT ▼
Device Metric:	3
☑ Default Route	

Routing Table

Name	Destination	Gateway	Netmask	Metric	Status	Action
New Route						🖹✳

Internet Connection Firewall	☑ Enabled

(This feature provides the ability to change the default firewall setting on this interface. We highly recommend that you not change the default setting).

Additional IP Addresses

IP Address	Subnet Mask	Action
New IP Address		🖹✳

Coax Connection Stats:	Go to WAN Coax Stats

[Apply] [Cancel]

24.Click 'Apply'
25.This will take you back one step and select 'Disable'
26.Click 'Apply'

Finished! Give a couple of minutes and your wireless devices can now be connected to the MI424WR router which is now a bridge.