How to Connect to XLX215 Module A

This guide assumes you are using a digital radio and are familiar with using it on your digital mode, YSF, DMR, or D-Star. You might be using a hot spot. I will cover that also.

XLX215 is now enabled to allow all digital modes to talk to each other.

These instructions are for linking to module A only. As I add more channels this will be expanded.

DMR

First, let me cover what I have not worked out yet – Linking to XLX215A directly from a DMR repeater. I don't even know if this is possible. If you know better please let me know.

What I do know is how you do this from a DMR Radio and a hot spot.

Let's check some settings on your Hotspot.

Log into your hotspots admin page using your computer or phone's web browser. You need to be connected to the same Wi-Fi network as your hot spot. If you have a screen on your hotspot it will tell you the IP address you need if it's not receiving a QSO.

For Example, mine is http://192.168.0.112 if your router is smart enough and the hotspot is set as default http://pi-star/ might work too.

If you are prompted for a login and you are on the default settings the username is "pi-star" and the password is "raspberry". (Don't enter the "")

Check or update these settings.

Find XLX Network Settings

Change XLX Master to XLX_215

Change Start-up Module to A

Timeslot will default to TS2

Make Sure XLX Master is enabled.

Save those settings and restart the hotspot (Via the Power Reboot option in the admin pages)

Make sure your Radio is on and connected to your hotspot frequency and is in DMR mode. As the hotspot starts you should hear an announcement saying connected to XLX215A. If yes your set, if no check the settings above.

All you need to do now is set your Radio to Talk Group 6, PTT once then on the second PTT you should be talking on XLX215A.

C4FM/YSF (Yaesu)

These instructions will focus on using a hotspot but if you are close enough to a C4FM repeater these should work on there also. (I am using a Yausu FT-991A so other radios might vary a little but hopefully, there's enough here to point you in the right direction)

You need a working hotspot on C4FM/YSF or you need to be connected with a good signal to a C4FM repeater. I have found repeaters to be less than reliable at this but it's worth a try.

Check your hotspot settings against mine at the end of the article for reference.
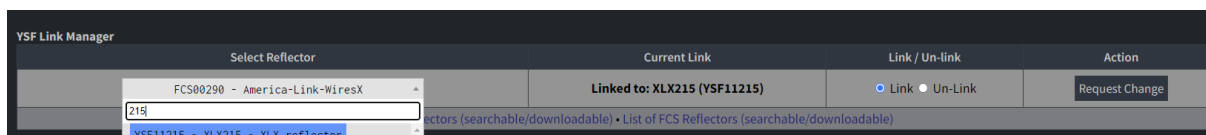
Set your radio to the frequency of your hotspot and put it in C4FM mode.

Find your Wires X or X key and hold it. This will query your hotspot. You will get a tone if completed. Search for XLX215 and select it. I find this sometimes takes a few attempts.

Once found add it to your favourites (Again this changes on each radio) on my 991a I have a favourite button.

You next need to find the GM button here you have a list of ID's, which ID you use doesn't matter, I use DG-ID 1 but you need to make sure TX and RX are set correctly, TX:10 and RX:0.

I have found the above process to be a little hit-and-miss. If you find the same you can cheat on a hotspot. Go to your hotspot admin page, find YSF Manager and select it, then on YSF Link manager find XLX215, select Link and then request change. Your radio should beep when connected.

You now just have to check the GM settings as above.

You are now ready to talk on XLX215A via YSF.

D-Star

My D-Star hotspot settings are below. I have my hot spot connected to XLX215A all the time on D-Star. The following will explain how you connect XLX215A via a hotspot or D-Star repeater.

Make sure your radio is tuned to the hotspot or repeater frequency and it is in Digital mode. Change the YOUR (sometimes called URCALL) setting to XLX215AL (L for linking) Press the PTT. If successful you will get a message saying you are linked. Now change the YOUR setting to CQCQCQ and press PTT, your ready to talk on XLX215A.

Extra information for the fun of it!

To check your audio, set the YOUR field to "------E" (That's 6 spaces before the E not dashes) Press PTT and talk, you will get what you said repeated back)

To check your connection set the YOUR to " ------I" and press PTT, if connected it will say Linked to XLX215A.

To unlink change the YOUR to "------U" you will get a message saying not linked.

Whenever you want to talk on the Reflector make sure you are linked YOUR is set to CQCQCQ.

Try REF030C for some North American QSO's.

There is much more to all these protocols and linking to Rooms, Reflectors, Talkgroups and each other but this document focuses on getting on XLX215A. Your questions via XLX215A or WhatsApp are always welcome. I try to monitor and reply when I can.

My Hotspot Settings.

Use your call sign and DMR ID's please, don't copy mine! These are screenshots from WPSD but Pi-Star is very similar.

DMR

DMR Configuration	
BrandMeister Network Settings	
BrandMeister Master:	BM_2341_United_Kingdom ▾
BM Hotspot Security:	·········· 👁
BrandMeister Network ESSID:	2350295 03 ▾
BrandMeister Network Enable:	🟢
BrandMeister Network:	Hotspot/Repeater Information | Edit Hotspot/Repeater (BrandMeister Selfcare)
DMR+/FreeDMR/HBlink/Custom Network Settings	
DMR+ / FreeDMR / HBlink / Custom Master:	DMR+_IPSC2-DMR-GATEWAY ▾
Network Options:	Options=
ESSID:	2350295 03 ▾
DMR+ / FreeDMR / HBlink / Custom Network Enable:	🟢
SystemX Network Settings	
SystemX Master:	SystemX_United_States ▾
Network Options:	Options=
ESSID:	2350295 03 ▾
SystemX Enable:	⚪
SystemX Network:	Options Generator
TGIF Network Settings	
ESSID:	2350295 03 ▾
TGIF Security Key:	··············· 👁
TGIF Network Enable:	🟢
TGIF Network:	TGIF SelfCare
XLX Network Settings	
XLX Master:	XLX_215 ▾
XLX Startup Module:	A ▾
Time Slot:	⚪ TS1 🔘 TS2
XLX Master Enable:	🟢
General DMR Settings	
DMR Color Code:	1 ▾
DMR EmbeddedLCOnly:	🟢
DMR DumpTAData:	🟢

YSF

Yaesu System Fusion Configuration	
YSF Startup Host:	FCS00290 - America-Link-WiresX ▾
UPPERCASE Hostfiles:	🟢
FCS Network:	🟢
WiresX Passthrough:	🟢
Enable DGIdGateway:	⚪
YCS Network Options:	Options=

D-Star

| D-Star Configuration			
RPT1 Callsign:	2E0TGP B ▾		
RPT2 Callsign:	2E0TGP G		
Remote Password:	········ 👁		
Default Reflector:	XLX215 A ▾		Link Type: 🔘 Auto-Link/Startup ⚪ Manual Link
ircDDBGateway Language:	English_(UK) ▾		
Time Announcements:	⚪		Interval: ⚪ 1 Hr. ⚪ 30 Mins. ⚪ 15 Mins.
Callsign Routing:	🟢		Connect to ircDDB for callsign routing
Use DPlus for XRF:	🟢		Note: Update Required if changed

XLX215 Dashboard

The dashboard for XLX215 can be found here.

https://hadars-reflector.ddns.net/index.php

This page is useful as it will show if you are connected, who else is connected who spoke last and who is talking (if anybody).

The yellow audio signal next to my call sign 2E0TGP shows I am talking.