X-Link Cable kit 3374

Connect a Kenwood NX3820/820-series to Mimer X-Link MK2

Also refer to the X-Link setup manual.

Interface Power Supply

12VDC / max 0,3A.
Power connection through separate cable delivered with the interface. Red is positive.

Connection

The radio is connected through the back 15PIN connector.

Radio programming

GPIO Pin 10 shall be programmed for external PTT active low.
The External PTT (voice) shall be connected to the MI2 line.

Apart from that, no special programming is needed in the radio.

See screen shots on following pages.

Radio Hardware setting

Two jumpers need to be moved from the factory setting in the radio.

See last page for details.
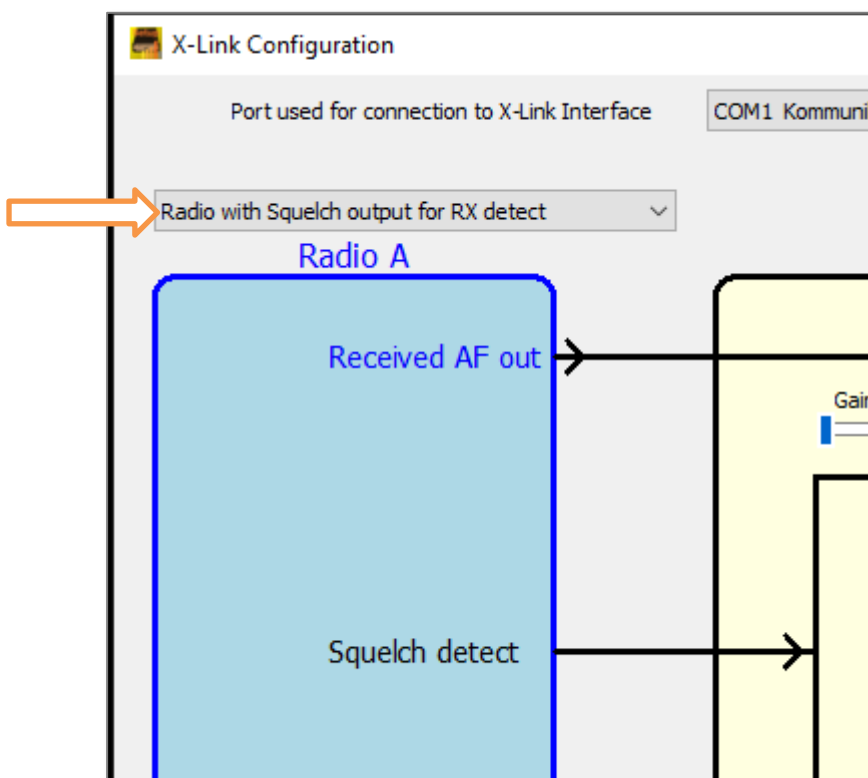
Settings in the X-Link interface
Select the proper settings for Radio A or Radio B in the X-Link setup software, depending on how you connect to the interface.

The Kenwood radios have an output signal that triggers when the channel is active. Depending on radio model and radio system you can set it, in the radio, to trigger on Squelch or PL-detect.

This is preferred to using the VOX detect function in the X-Link.

Therefor set the X-Link to use:

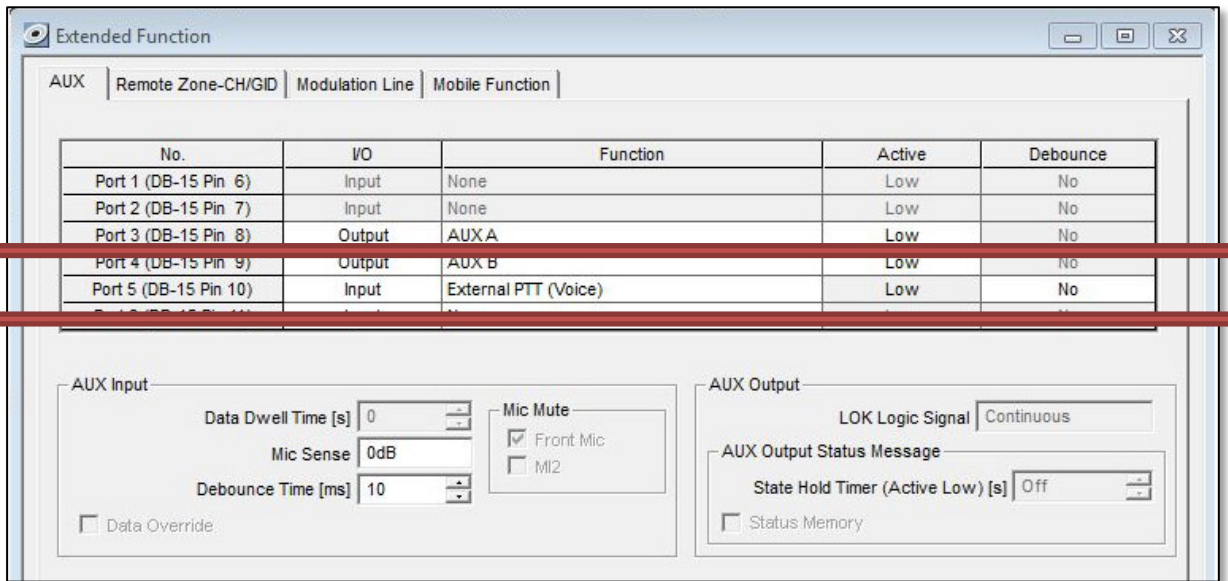- Radio with squelch output for Rx detect

Part of the Configuration software window

Check/adjust the audio levels in both directions in the interface so that the users can hear the X-Link with the same level as when listening to other radios.

See the X-Link setup manual for details on setting the audio level.

Screen shots from the radios programming software (NX720/820)
Microphone and PTT settings

Extended Function

AUX | Remote Zone-CH/GID | Modulation Line | Mobile Function

No.	I/O	Function	Active	Debounce
Port 1 (DB-15 Pin 6)	Input	None	Low	No
Port 2 (DB-15 Pin 7)	Input	None	Low	No
Port 3 (DB-15 Pin 8)	Output	AUX A	Low	No
Port 4 (DB-15 Pin 9)	Output	AUX B	Low	No
Port 5 (DB-15 Pin 10)	Input	External PTT (Voice)	Low	No

AUX Input
Data Dwell Time [s] 0
Mic Sense 0dB
Debounce Time [ms] 10
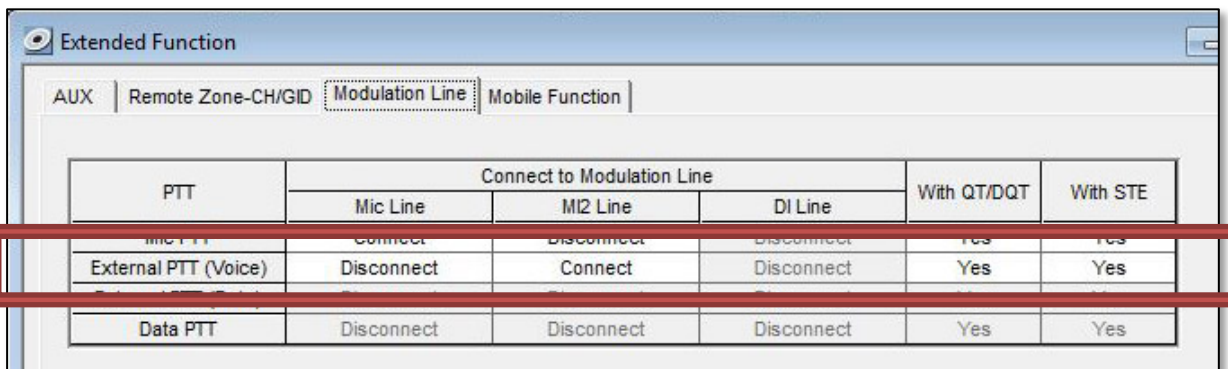☐ Data Override

Mic Mute
☑ Front Mic
☐ MI2

AUX Output
LOK Logic Signal Continuous
AUX Output Status Message
State Hold Timer (Active Low) [s] Off
☐ Status Memory

Extended Function

AUX | Remote Zone-CH/GID | Modulation Line | Mobile Function

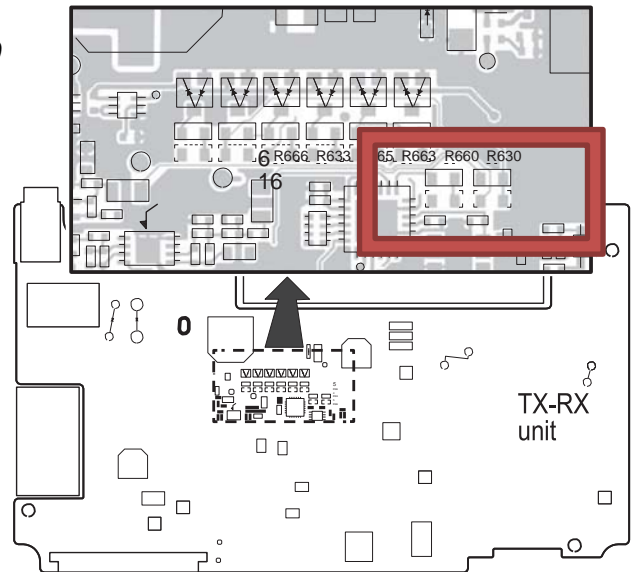| PTT	Connect to Modulation Line			With QT/DQT	With STE
	Mic Line	MI2 Line	DI Line		
Mic PTT	Connect	Disconnect	Disconnect	Yes	Yes
External PTT (Voice)	Disconnect	Connect	Disconnect	Yes	Yes
Data PTT	Disconnect	Disconnect	Disconnect	Yes	Yes

Changing of Signal Type NX720/820
Information from the service manual of NX-720

Change signal output of D-SUB connector from DEO to AFO
The output (pin4) of D-SUB 15-pin connector is configured at the DEO as the default value. Remove the R796 chip jumper and solder the clip jumper to R798.

Change signal input of D-SUB connector from DI to MI2
The input (pin5) of D-SUB 15-pin connector is configured at the DI as the default value. Remove the R797 chip jumper and solder the chip jumper to R799.

TX-RX unit

Changing of Signal Type NX3720/3820
Information from the service manual of NX-3720

2.3.6 Changing of Signal Type

2.3.6.1 Change signal output of D-SUB connector from DEO to AFO
The output (4pin) of D-SUB 15-pin connector is configured at the DEO as the default value.
Remove the R613 chip jumper and solder the clip jumper to R612.

2.3.6.2 Change signal input of D-SUB connector from DI to MI2
The input (5pin) of D-SUB 15-pin connector is configured at the DI as the default value.
Remove the R659 chip jumper and solder the chip jumper to R601.