Cable Kit 3116
Interface 3009/29

Mimer SoftRadio – Kenwood NX-720/820-series

Remote functionality
This cable kit will together with the Mimer Network Interface 3009/29 give a virtual control head with full functionality and remote control of the radios audio and PTT functions.

Radio programming
GPIO Pin 10 shall be programmed for external PTT active low.
The External PTT (voice) shall be connected to the MI2 line.
Data settings, see attached screen shots.

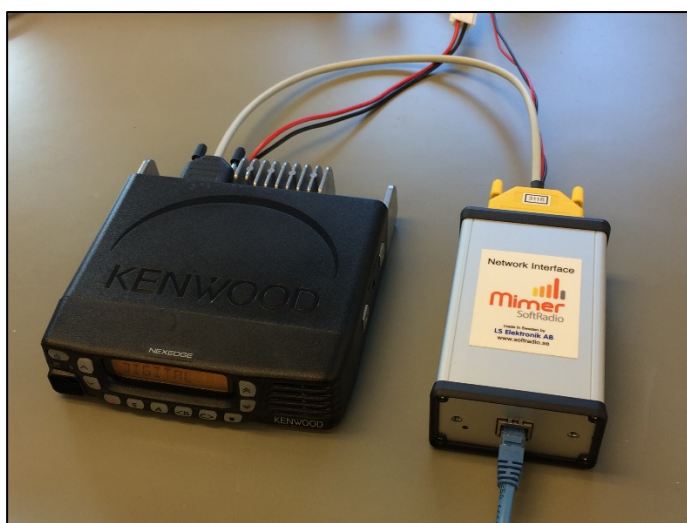Apart from that, no special programming is needed in the radio.

Radio Hardware setting
Two jumpers need to be moved from the factory setting in the radio.
See next page for details.

Cable Kit
The red and black wires shall be connected to 12VDC, red is positive.

The network interface consumes max 0,3A.

*Network Interface connected to
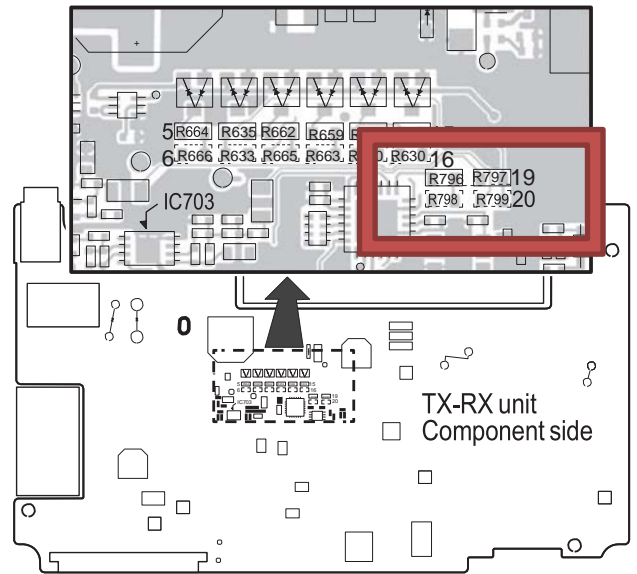Kenwood NX-720*

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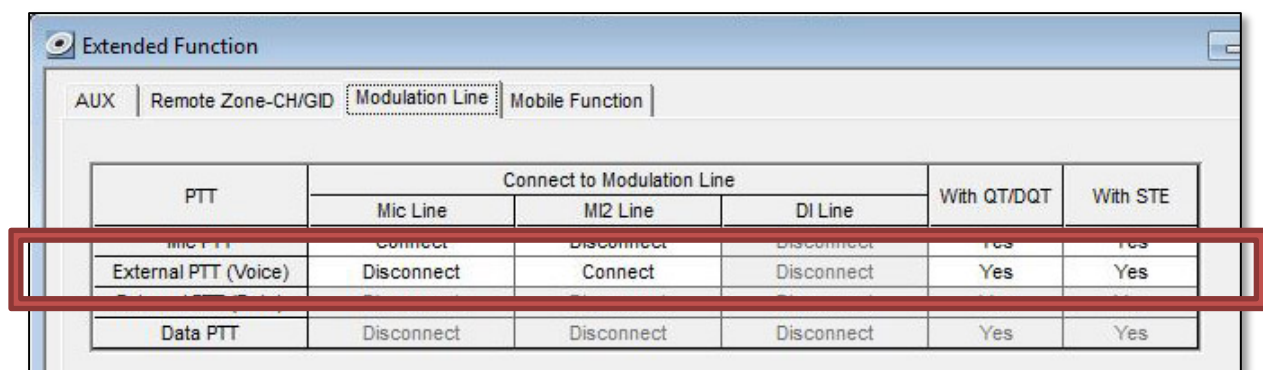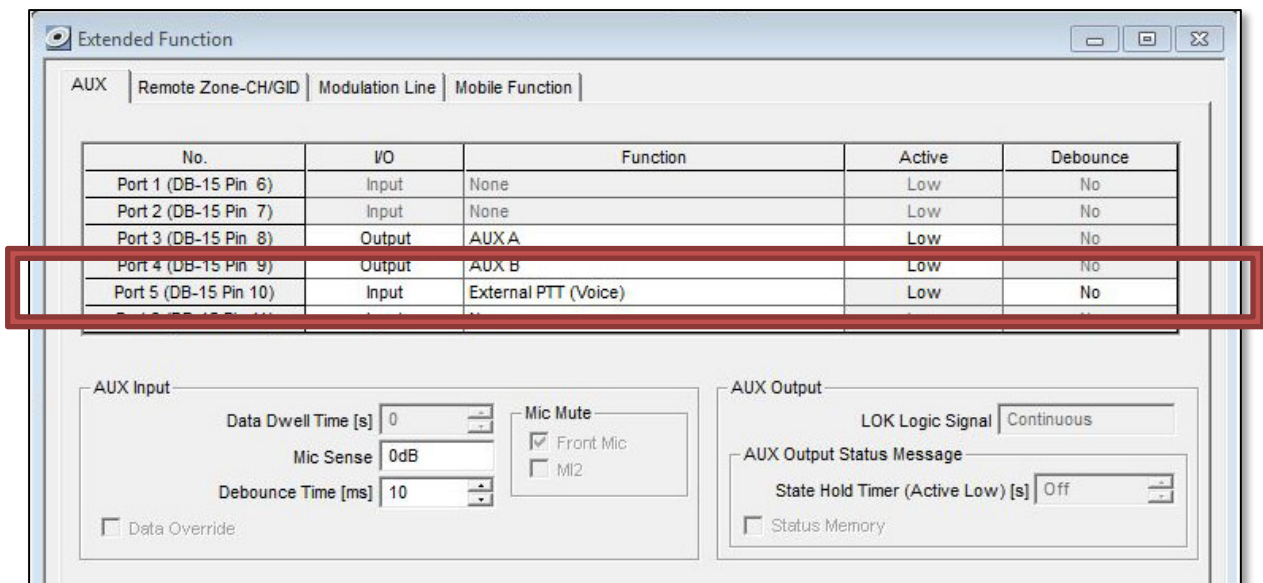
Change signal input of D-SUB connector from DI to MI2
The input (pin5) of D-SUB 15-pin connector is configured at the DI as the default value. Remove the R797 chip jumper and solder the chip jumper to R799.

TX-RX unit
Component side

Screen shots from the radios programming software
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

Data settings