Connect a Sepura SRG to Mimer X-Link

Interface Power Supply
+12VDC / max 0,3A.

See wiring diagram on the following page.

Radio setup
The standard control head, or the AIU-box, needs to be fitted to the radio.

In the control head port used on the radio, the PEI port needs to be active.

You should program a fixed audio level, see programming tips further down.

Connection
The cable kit is connected through the 8-pin and the 10-pin connector on the back side of the control head.

Or in the AIU-box, with the 10-pin connector and the 15-pin high density D-Sub.

Backside of control head

Settings in the X-Link interface

Select the proper settings for Radio A or Radio B depending on your connection.

- SRG3900 Radio using PEI for Rx detect
- RS232
- 115200 Baud
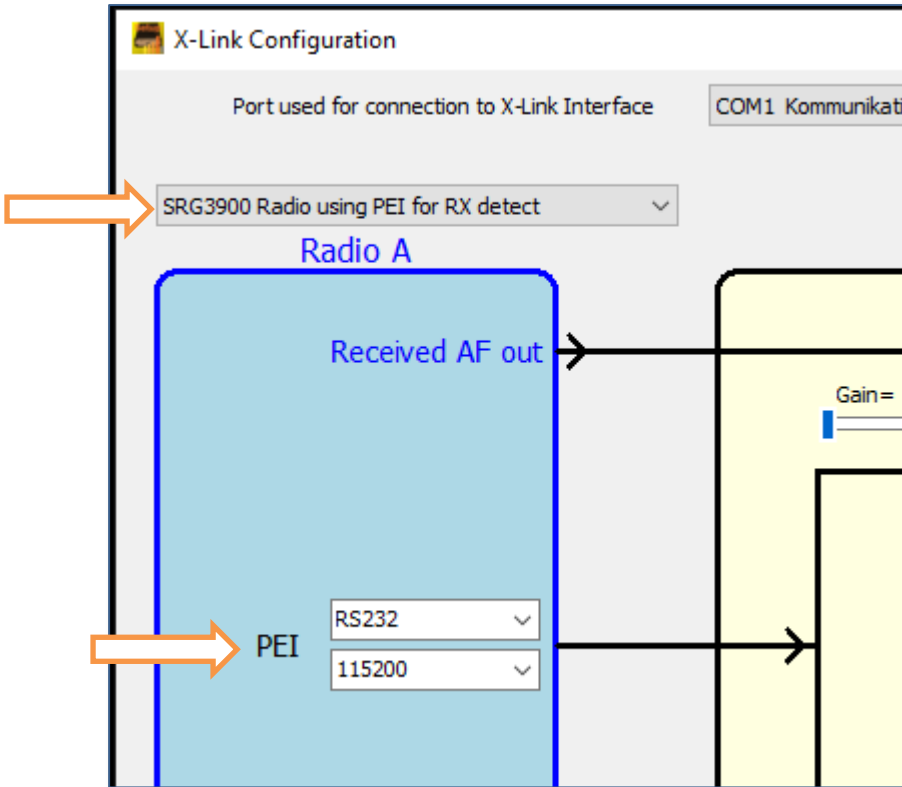
Part of the Configuration software window

Check/adjust the audio levels in both directions in the interface so that the users hears 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.

Connection Cable:
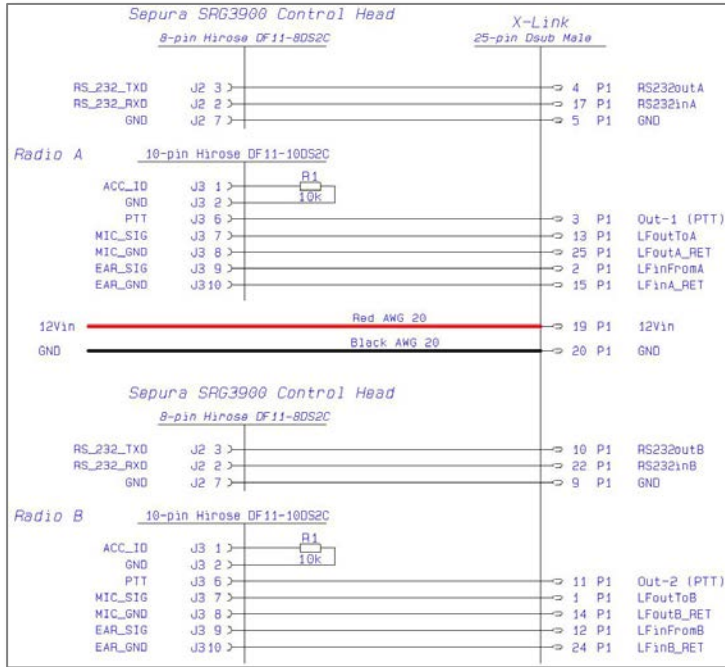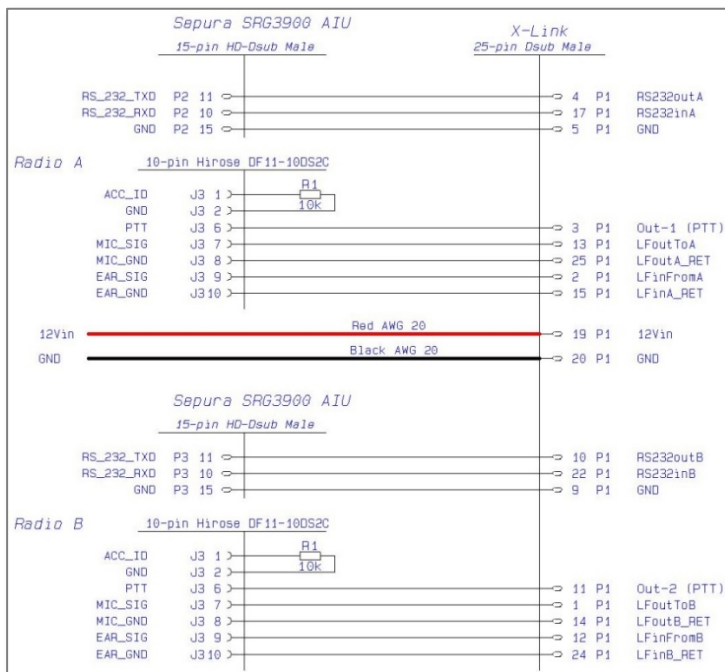Select the proper configuration below depending on if your radio will be connected as Radio A or Radio B to the X-Link interface.

Connected in the SRG Control Head

```
Sepura SRG3900 Control Head              X-Link
    8-pin Hirose DF11-8DS2C          25-pin Dsub Male

RS_232_TXD   J2 3 >                          4  P1   RS232outA
RS_232_RXD   J2 2 >                          17 P1   RS232inA
      GND    J2 7 >                          5  P1   GND

Radio A      10-pin Hirose DF11-10DS2C
                           R1
   ACC_ID    J3 1 >       ___
      GND    J3 2 >       10k
      PTT    J3 6 >                          3  P1   Out-1 (PTT)
  MIC_SIG    J3 7 >                          13 P1   LFoutToA
  MIC_GND    J3 8 >                          25 P1   LFoutA_RET
  EAR_SIG    J3 9 >                          2  P1   LFinFromA
  EAR_GND    J310 >                          15 P1   LFinA_RET

                      Red AWG 20
  12Vin  ─────────────────────────────       19 P1   12Vin
   GND   ───────────────────────────────     20 P1   GND
                     Black AWG 20

      Sepura SRG3900 Control Head
          8-pin Hirose DF11-8DS2C

RS_232_TXD   J2 3 >                          10 P1   RS232outB
RS_232_RXD   J2 2 >                          22 P1   RS232inB
      GND    J2 7 >                          9  P1   GND

Radio B      10-pin Hirose DF11-10DS2C
                           R1
   ACC_ID    J3 1 >       ___
      GND    J3 2 >       10k
      PTT    J3 6 >                          11 P1   Out-2 (PTT)
  MIC_SIG    J3 7 >                          1  P1   LFoutToB
  MIC_GND    J3 8 >                          14 P1   LFoutB_RET
  EAR_SIG    J3 9 >                          12 P1   LFinFromB
  EAR_GND    J310 >                          24 P1   LFinB_RET
```

Connected in the AIU Box

```
Sepura SRG3900 AIU                       X-Link
   15-pin HD-Dsub Male               25-pin Dsub Male

RS_232_TXD   P2 11                           4  P1   RS232outA
RS_232_RXD   P2 10                           17 P1   RS232inA
      GND    P2 15                           5  P1   GND

Radio A      10-pin Hirose DF11-10DS2C
                           R1
   ACC_ID    J3 1 >       ___
      GND    J3 2 >       10k
      PTT    J3 6 >                          3  P1   Out-1 (PTT)
  MIC_SIG    J3 7 >                          13 P1   LFoutToA
  MIC_GND    J3 8 >                          25 P1   LFoutA_RET
  EAR_SIG    J3 9 >                          2  P1   LFinFromA
  EAR_GND    J310 >                          15 P1   LFinA_RET

                      Red AWG 20
  12Vin  ─────────────────────────────       19 P1   12Vin
   GND   ───────────────────────────────     20 P1   GND
                     Black AWG 20

      Sepura SRG3900 AIU
         15-pin HD-Dsub Male

RS_232_TXD   P3 11                           10 P1   RS232outB
RS_232_RXD   P3 10                           22 P1   RS232inB
      GND    P3 15                           9  P1   GND

Radio B      10-pin Hirose DF11-10DS2C
                           R1
   ACC_ID    J3 1 >       ___
      GND    J3 2 >       10k
      PTT    J3 6 >                          11 P1   Out-2 (PTT)
  MIC_SIG    J3 7 >                          1  P1   LFoutToB
  MIC_GND    J3 8 >                          14 P1   LFoutB_RET
  EAR_SIG    J3 9 >                          12 P1   LFinFromB
  EAR_GND    J310 >                          24 P1   LFinB_RET
```
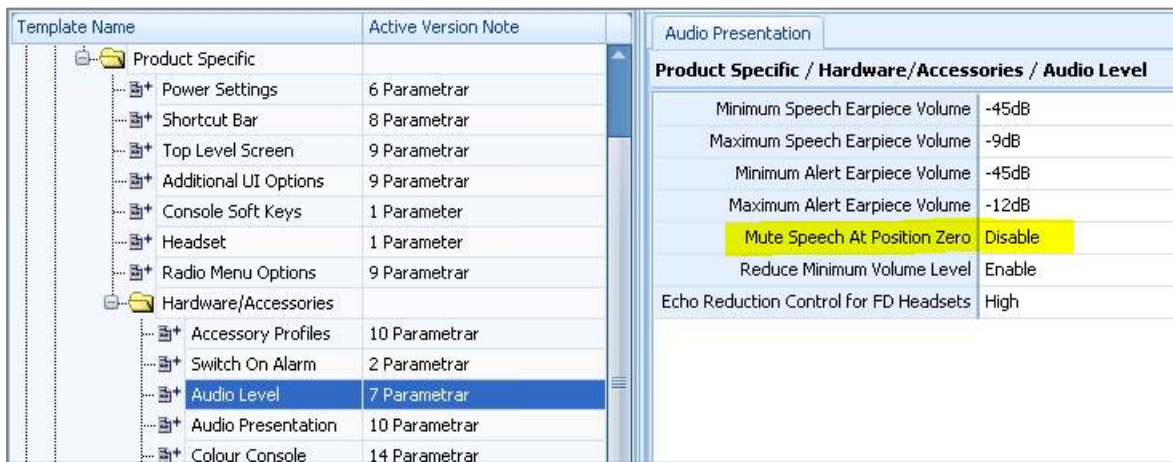
Programming tips

To get a fixed audio level out of the radio to the interface. Set all volumes to 0dB.
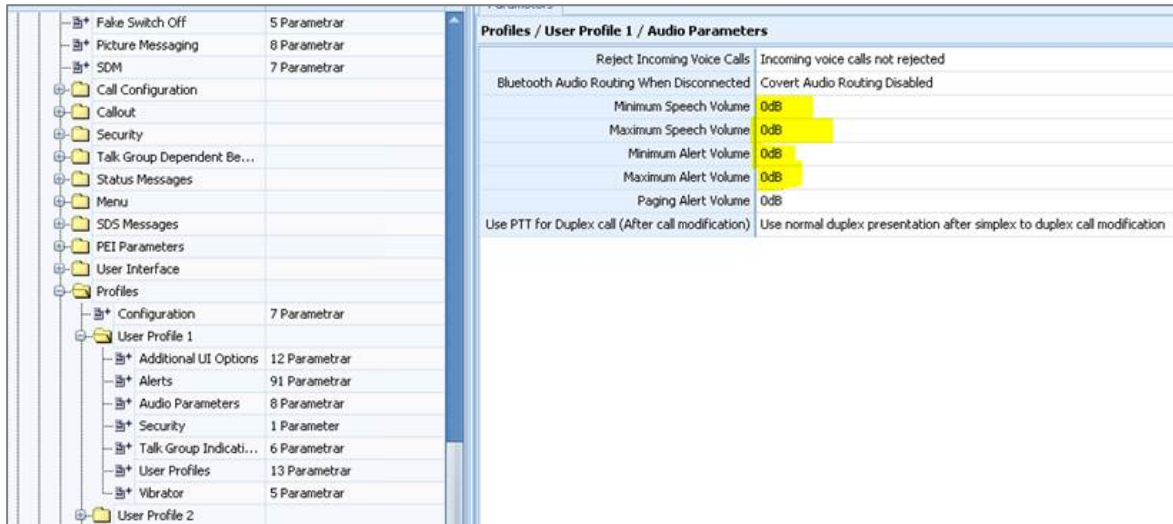
To make sure that the audio is not muted when the knob is in zero position. Disable the "Mute speech…" function.

Power Connection

Use the "Ignition Sense" cable to make certain that the radio starts when power is connected.