The ESAM (Editing Suite Audio Mixer) protocol has been defined by Graham-Patten Systems, Inc. The complete ESAM-2 (a.k.a. SERIAL-II) Protocol Specification can be downloaded from http://www.gpsys.com/products/protocols.htm.

Supported ESAM-II commands by DHD

- `All Stop`
- `From Source`
- `To Source`
- `Transition Start`
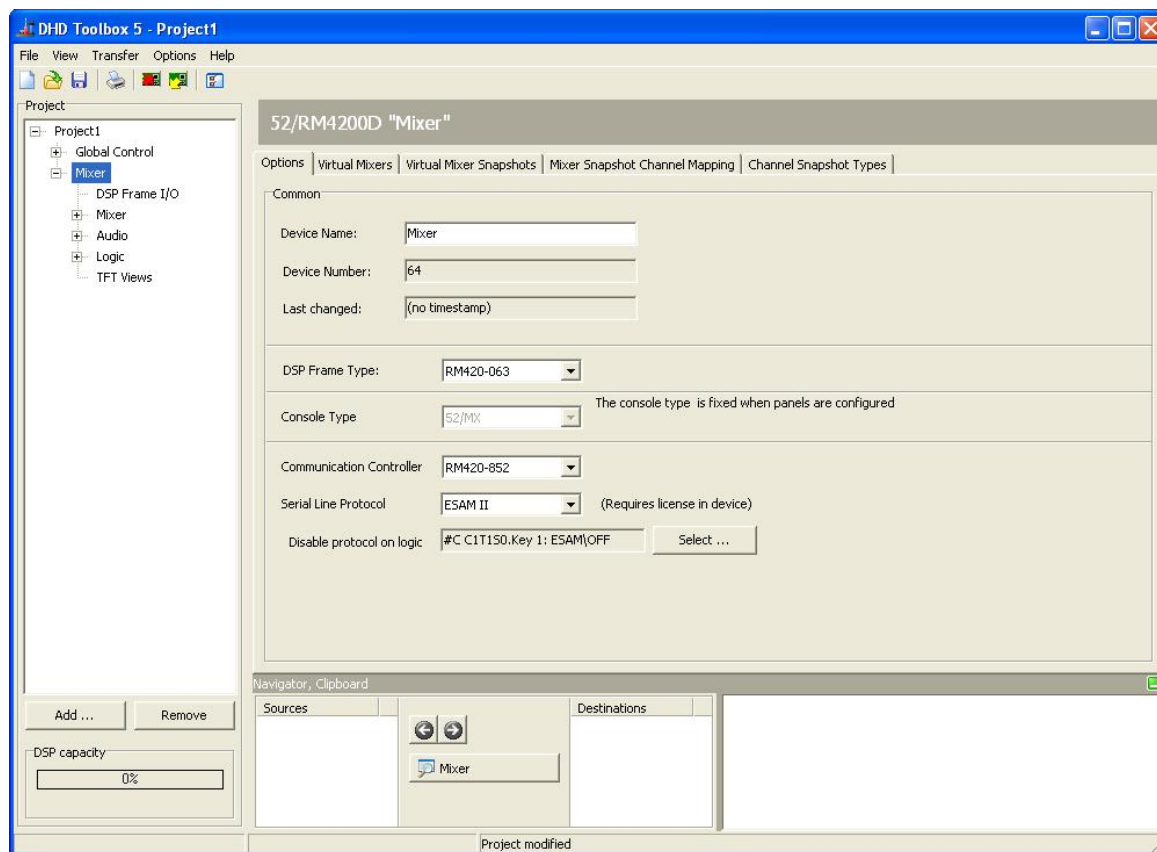- `Fader Level`
- `Transition Duration`

Please ask DHD for the detailed protocol implementation!

The protocol was implemented and tested for the Thomson Grass Valley Kayak.

Software License Code

The software license code is stored in the RM420-852 Communication Controller.

You need to activate the ESAM-II protocol in the Toolbox5 configuration project, available with Toolbox5 version 6.4.8 or higher.

The Options tab of the selected device.

The firmware version of the 52/RM4200D frame Communication Controller RM420-852 needs to be 6.4.20 or higher.

Serial Interface (RS422)

The serial connector for the ESAM-II protocol is available on special request for the DSP frames RM420-061/062/063.

Pin assignment of the SubD-9-Pin female connector:

Pin 1: not connect (internal GND)
Pin 2: TXD_A (transmit output +)
Pin 3: RXD_B (receive input -)
Pin 4: cable shield (chassis/housing)
Pin 5: not connect (internal GND)
Pin 6: cable shield (chassis/housing)
Pin 7: TXD_B (transmit output -)
Pin 8: RXD_A (receive input +)
Pin 9: not connect (internal GND)

Note

GND and chassis (cable shield) are shorted internally.