The SOLX 452 Extras



After playing with the SOLX452 for some time I realized that even though the EMS envelope shaper is interesting, for some musical projects an ADSR envelope was needed.

There was some space in the housing so I decided to put in a high pass filter to complement the low pass filter in the main unit. There is a multicore cable supplying the power along with some control voltages.

The other small unit is a self-contained 4 channel mixer with 4 mono inputs and 2 stereo outputs.

The ADSR

This is based on a tried and tested design using a 555 timer and works very well. I also included a FET VCA as in the EMS circuit.

The High Pass Filter

I used the design from the early Synthi 100 which is a diode matrix circuit with an 18dB/oct. response.

Unfortunately I can't show the schematics because it is not in the public domain and is currently being sold as a dual 19 inch unit from UK based company "Digitana".

https://www.synthi.co.uk/synthi-100-mk1-dual-high-pass-filter-rack-module/

The Synthi 100 however later used a state variable filter with 12dB/oct. response. This could be used instead.

The Mixer

This is a standard design with input level controls, pan pots and output level Pots.



