MIDIbox FM V2.1

See http://midibox.org/forums/topic/19073-midibox-fm-v21-on-stm32f4/ and http://midibox.org/forums/topic/18282-midibox-fm-v20-on-lpc17/

This is a synth by Sauraen constructed in 2014-2015. It's as finished as it ever will be, but it was never documented for others to try to replicate... until now!

Please note that this is still not a complete, well-documented project, and certainly not for beginners. I do not guarantee that all the information you will need is available here. Please comment on the MIDIbox FM V2.1 thread to ask for more information when necessary.

Connection of OPL3 module to STM32F4 core

(Information from http://svnmios.midibox.org/filedetails.php?repname=svn.mios32&path=%2Ftrunk%2Fmodules%2Fopl3%2FReadme.txt)

The OPL3's Reset line must be buffered to 5 volts; all the other inputs may be driven by 3.3 volts. Pinout: OPL3 D7:0 → PE15:8 (J10A D7:0) OPL3 A1:0 → PE7:6 (J10B D15:14) OPL3 RS (#IC) → PB8 (J19:RC2) First OPL3 WR (#CS, #WR) → PE5 (J10B D13) Second OPL3 WR (#CS, #WR) → PE4 (J10B D12)

The pins used for RS and the two CS pins may be changed by defining the appropriate things in your mios32_config.h file. See the README from the OPL3 module above. (Or just use the MIDIbox FM V2.1 code and hook the wires up as shown here.)

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