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Summary

MIDIbox Quad Genesis (MBQG) is a homebrew synthesizer project in progress, designed and built by Sauraen and originally commissioned by Josh Whelchel. It runs up to four sets of YM2612 (OPN2) + SN76489/94/96 (PSG) sound chips, one set of which comprised the sound generation hardware in a Sega Mega Drive / Genesis. The synth is powered by a STM32F4 core running MIOS32, and is based on MIDIbox hardware and software throughout.

Useful Links

MIDIbox Quad Genesis forum thread

MIDIbox FM V2.1 (OPL3 synth on STM32F4) forum thread, including some old discussion with yogi about MIDIbox Quad Genesis ideas

Fill out this form if you might be potentially interested in buying MBHP_Genesis boards

Hardware

Hardware components

- CORE_STM32F4 module (embedded CPU, LCD parallel interface, DIO SPI level shifter, SD card, USB MIDI)
- Zero, one, or two MIDI_IO modules
- One, two, or four MBHP_Genesis modules
- 2×40 character LCD (or VFD) (size mandatory)
- MBQG_FP custom front panel board; or alternately, DIN, DOUT, and/or DIO_MATRIX modules as needed to make custom front panel

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