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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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