

# SEQ V4+

Around November 2016 I embarked upon a new version of the SEQ v4. Some initial concepts had an integrated 16\*4 BLM included, but the idea was refined to something simpler.

The goals of the project are to provide an upgraded control surface with high-quality hardware. This includes Matias keyswitches rated at 50M cycles and a streamlined workflow with a dedicated button row.

Although I (latigid on) have done most of the design and prototyping, I am in communication with TK, who will cover the software changes to get the new control surface up and running. I've also had a lot of collaboration with Adrian Hallik who is looking at a case design.

## Required modules

The following components are intended to comprise a full SEQ V4+:

- [1e MEC](#) (\*2 required)
  - [Beat LED](#) (optional but recommended)
- [ENC-PLATE](#) (\*2 required)
- [JOG](#)
- Two 40\*2 OLED displays (details later)
- A [wCoreF4](#) including:
  - [wCoreF4 PCB](#)
  - [USB-power module](#)
  - [RES-SD module](#)
- [MIDI8](#)
- [I2C](#)
- [line-transmit](#)
  - in effect there is space for a DB-25 expansion port, so alternative options are possible.

## Module Interconnection and Assembly

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