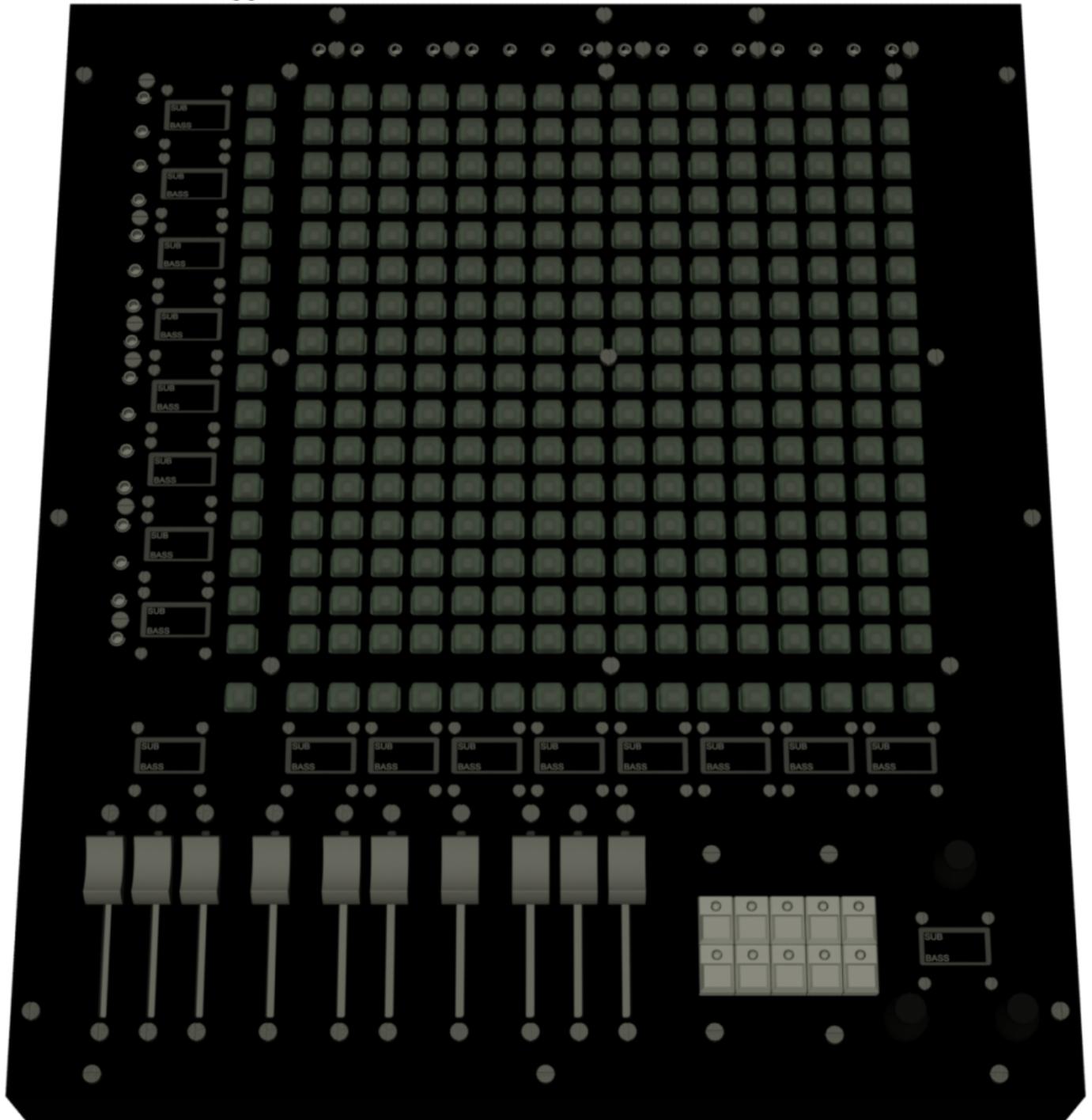# TriggerMatrix V5

first renders off Triggermatrix V5

TM-V5 uses custom PCBs
17 Screens now driven by the Display driver PCB
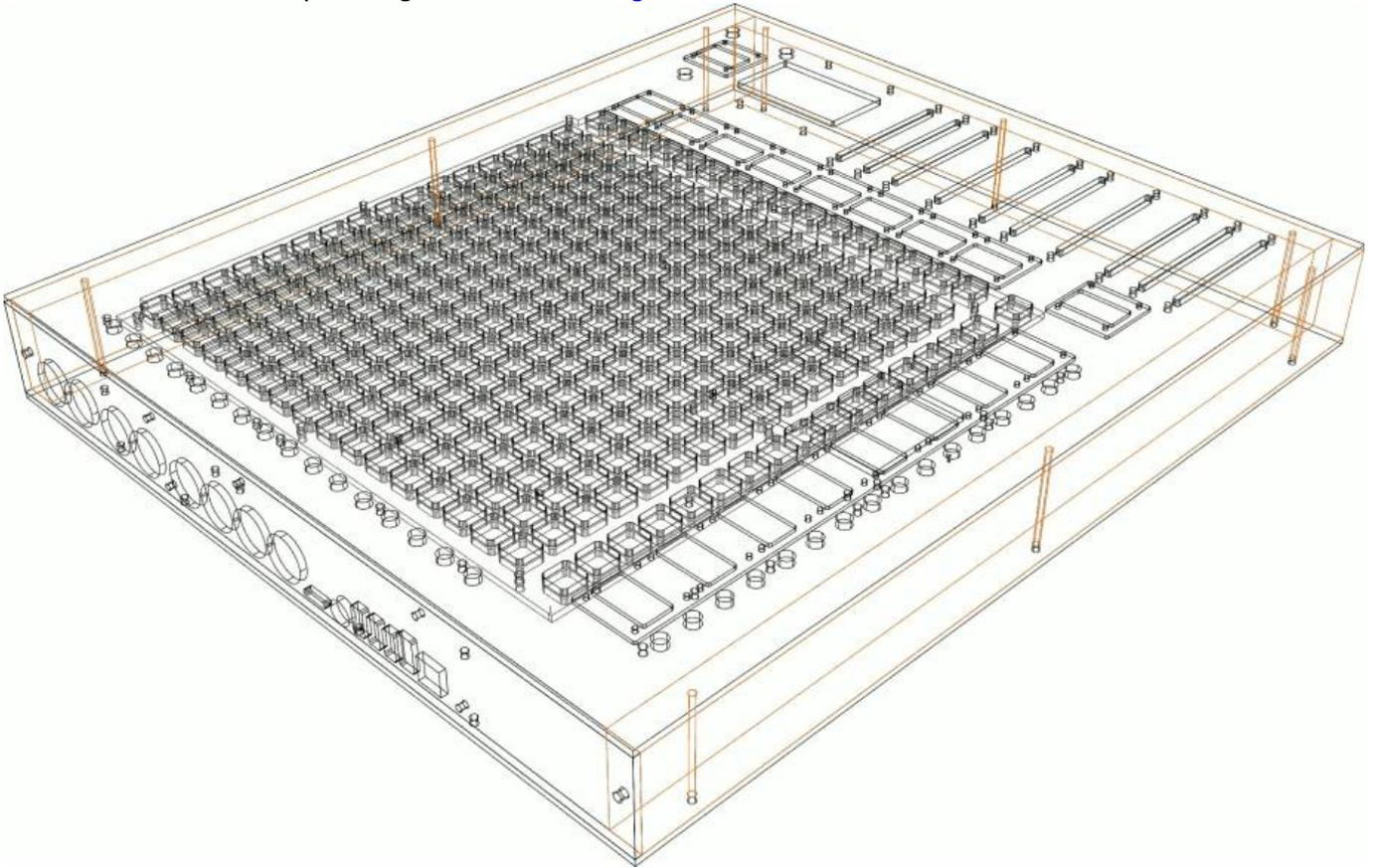So the Matrix-Cells get names now in X and Y view
Trigger-Output on 5V Level (before it was all midi only)
Trigger-Input on 3V, 5V or Mic-Preamp-Level
The whole Device will be a bigger because of Extra Screens and because of 2×16 3.5 Trigger JAcks…

Housing and Panels

For Files and Pictures, please go to TM5-Housing

BOM + common Components

Order from Reichelt:

- 10x 10K Lin, Faders
- 8x Fader-Knob, BLACK
- 2x Fader-Knob, WHITE
- 1x 26Pole Wire

Order from other Sources:

*17x OLED-Displays 128x64px 0,96" * 144x M2 Nuts * 72x M2 Discs * 3x Encoder Knob * 1x Micro-SD-Card, which is not Hi-Capacity, eg take 4 or 8GB Cards!*
17x Leiterplatten Montageblock aka Standoffs
1x 0.5m Micro-USB-Cable this will be cut at the USB-A Side off the Cable, and then soldered to the USB-B Port off the Core4Disc-Board

===M2 Screws=== * 72 x 7-5-8mm (Displays) *for example 100x 8mm*
===M3 Screws=== — *i buy more, so its cheaper, but you may order smaller quantitiys*
* 20 x 3,5 - 4mm *for example 1000x*
* 14 x 8,5mm > *for example 100x 10mm*
* 13 x 14,5mm *for example 100x 16mm*
* 19 x 17,25mm *for example 100x 20mm*

* 8 x 54mm - if not accessable you may drill the Panel to 4mm: *8x 60mm M4 Screws*
* optional 10 x 6mm *for example 100x 6mm*
* optional 3mm Discs *for example 100x Discs*
* lots off M3 Nuts *for example 1000x*
=== Other Screws === * 2x Woodscreews 15-20mm *for example 50x 20mm*
==== PCB + their Components ==== * *TM5-GateInput* Levelshifter 5V>3V and Preamp for Gate/Trigger-Input
* *TM5-codeblock* Menuesection
* *TM5-Gate-Board* 3,5 Jack Boards for 16 + 16 Gates
* *TM5-DinDoutGate* Module for UI and Gates
* *Core4Disc* CoreBoard for STM32F407VGT6 Discovery Boards, with some onboard Peripheral
* *Core4DiscMidiEx* Midi-Expansion Board for Core4Disc
* *DisplayDriver-SMD* Display Driver for 18x SSD1306 7Pin Displays
* *BLM16x16V2* 16×16 Button Led Matrix
=== Complete BOM for Boards above === copy following list into this *mouser.com-Link*

```
595-SN74LVC1G17DBVR|12
80-C0805C104M5R|32
710-860010273011|1
863-BAT54LT1G|34
595-SN74HC595DR|15
595-SN74HC165DT|5
710-61201021621|2
863-BC818-40LT1G|34
660-RK73B2ATTD102J|34
660-RK73B2ATTD103J|75
603-RC0805JR-13220RL|40
660-RK73H2ATTD56R0F|40
604-APTR3216ZGC|300
604-APTR3216QBC/D|300
833-1N4148WL2-TP|150
652-PEC11R-4015F-S24|3
649-1012937890401BLF|1
517-30310-6002|5
571-1-2178710-0|4
490-SJ1-3535NG|32
667-ERJ-P06J102V|32
495-TSR2-2450|1
538-67068-8000|1
583-1N5818-T|1
649-1012938390801ALF|1
806-KCDX-5S-S2|4
511-STM32F407G-DISC1|1
490-PJ-079BH|1
611-1101M2S4AV2BE2|3
538-89485-8000|1
649-75869-232LF|1
806-KCDX-5S-S2|4
660-RK73B2BTTD221J|2
710-61200823021|22
```

Order from Reichelt:

10x Button

20x M3 5mm long Spacer

6x Micromatch-connector 10pin

32x Jumper

21x 2x5Pin FeMale 2,54mm Header

2x 2x25Pin Female 2,54mm Heades

3x 1x20Pin Male 2,54mm Header

1x 2x10Pin Male 2,54mm Header

4x 2x4Pin Female 2,54mm Header

19x Female Pinheader 1x7pin

===== Community users working on it ===== * **Phatline** = Programming, Documentation, Hardware-Prototype, Testing, Jamin…

===== Getting Involved ? ===== Just let a Private message on the forum to user already involved. or join the forum: Triggermatrix 5

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