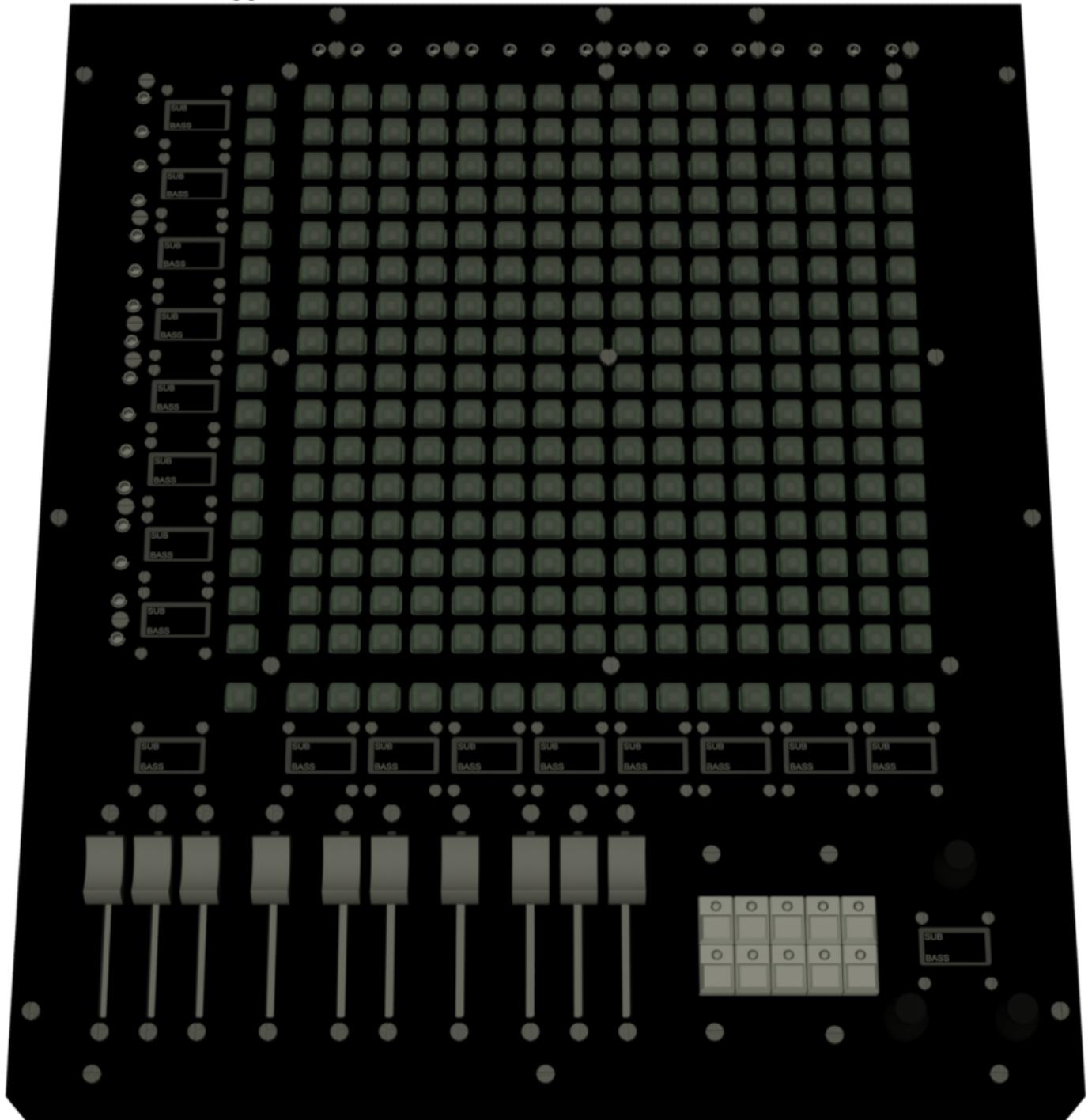


# TriggerMatrix V5

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

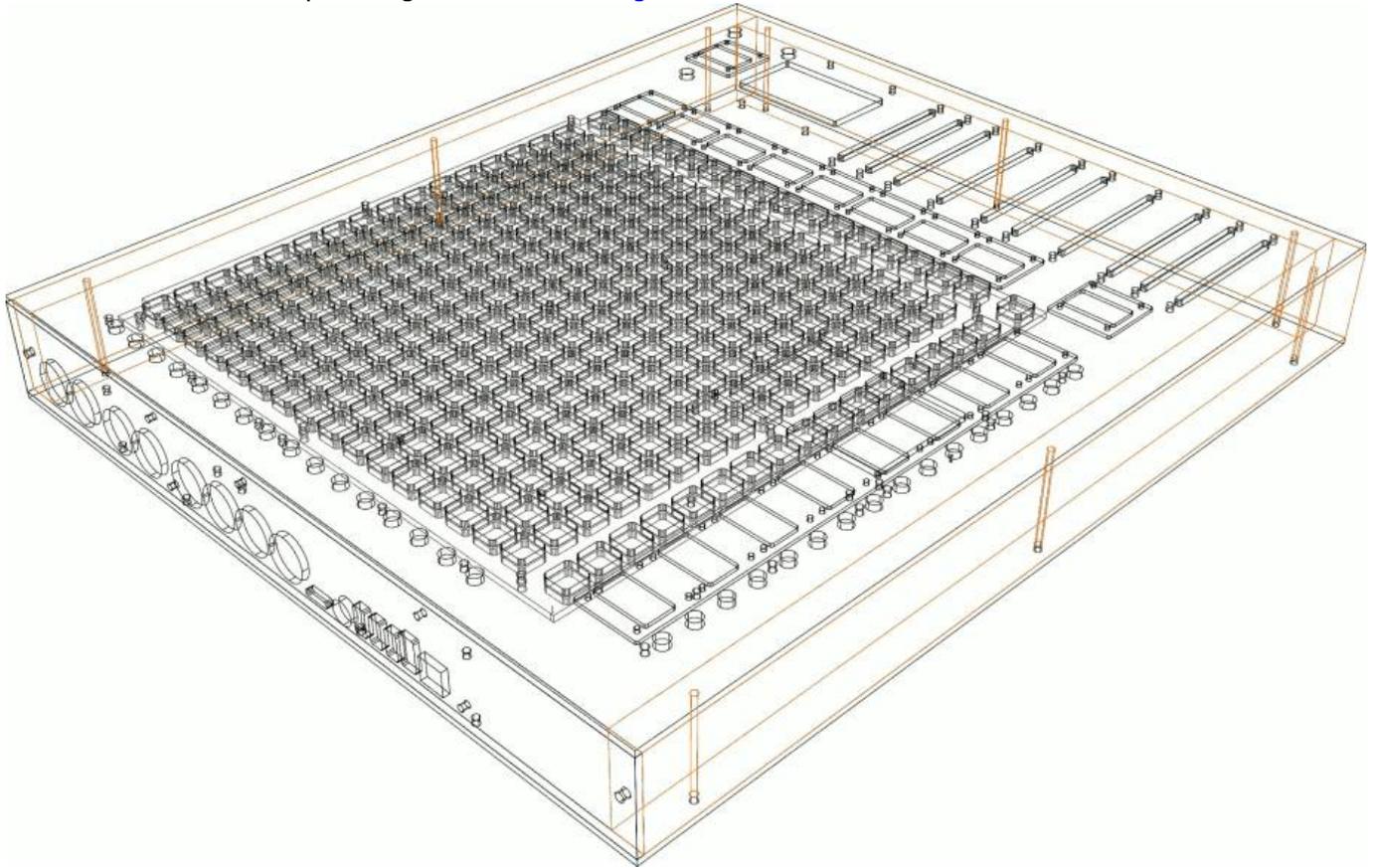
Trigger-Output on 5V Level (before it was all midi only)

Trigger-Input on 3V, 5V or Mic-Preamplifier-Level

The whole Device will be a bigger because of Extra Screens and because of 2x16 3.5 Trigger JAKs...

## 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 quantities*

\* 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 accessible 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 Woodscrews 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* 16x16 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-RK73B2BTDD221J|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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