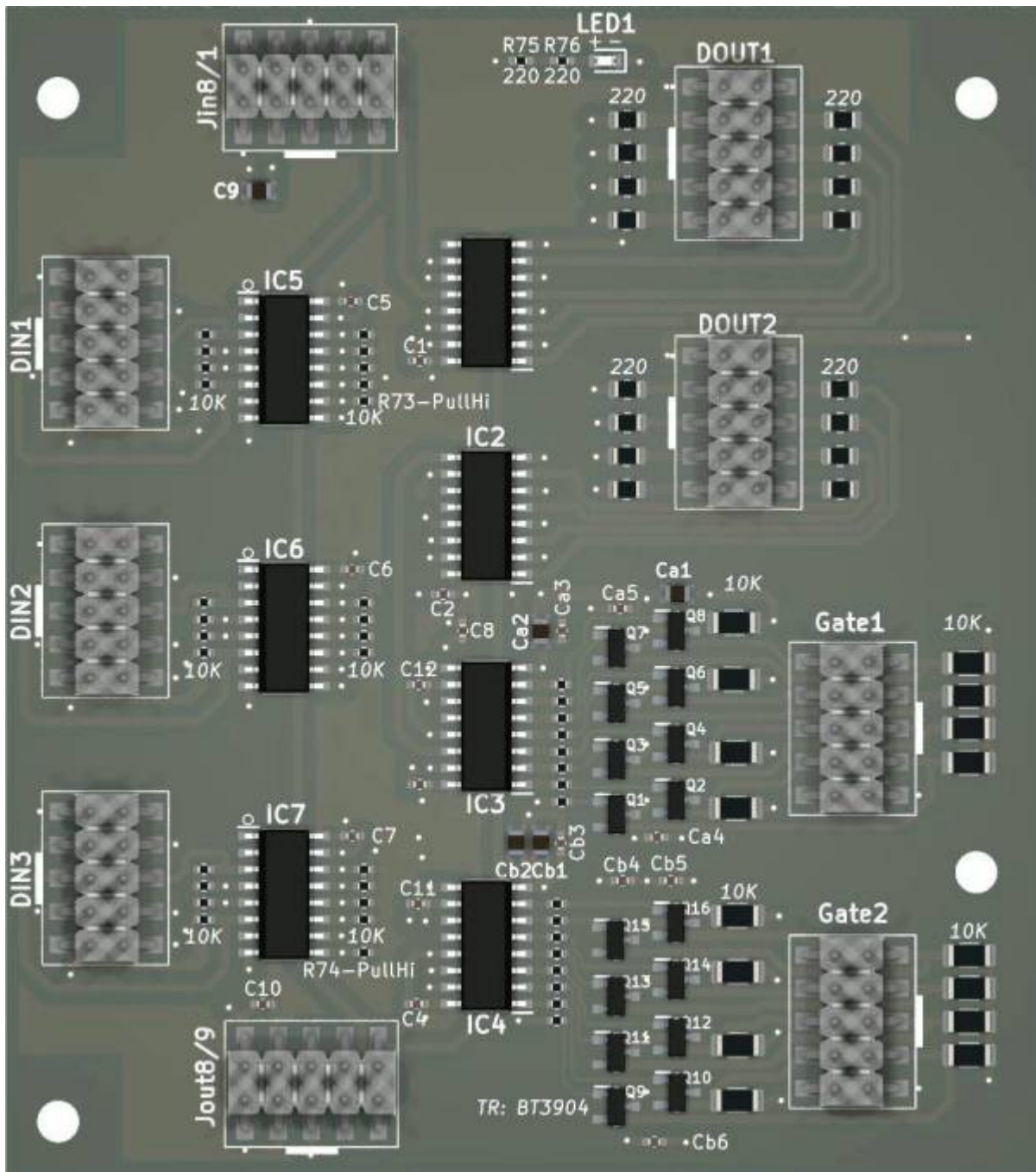
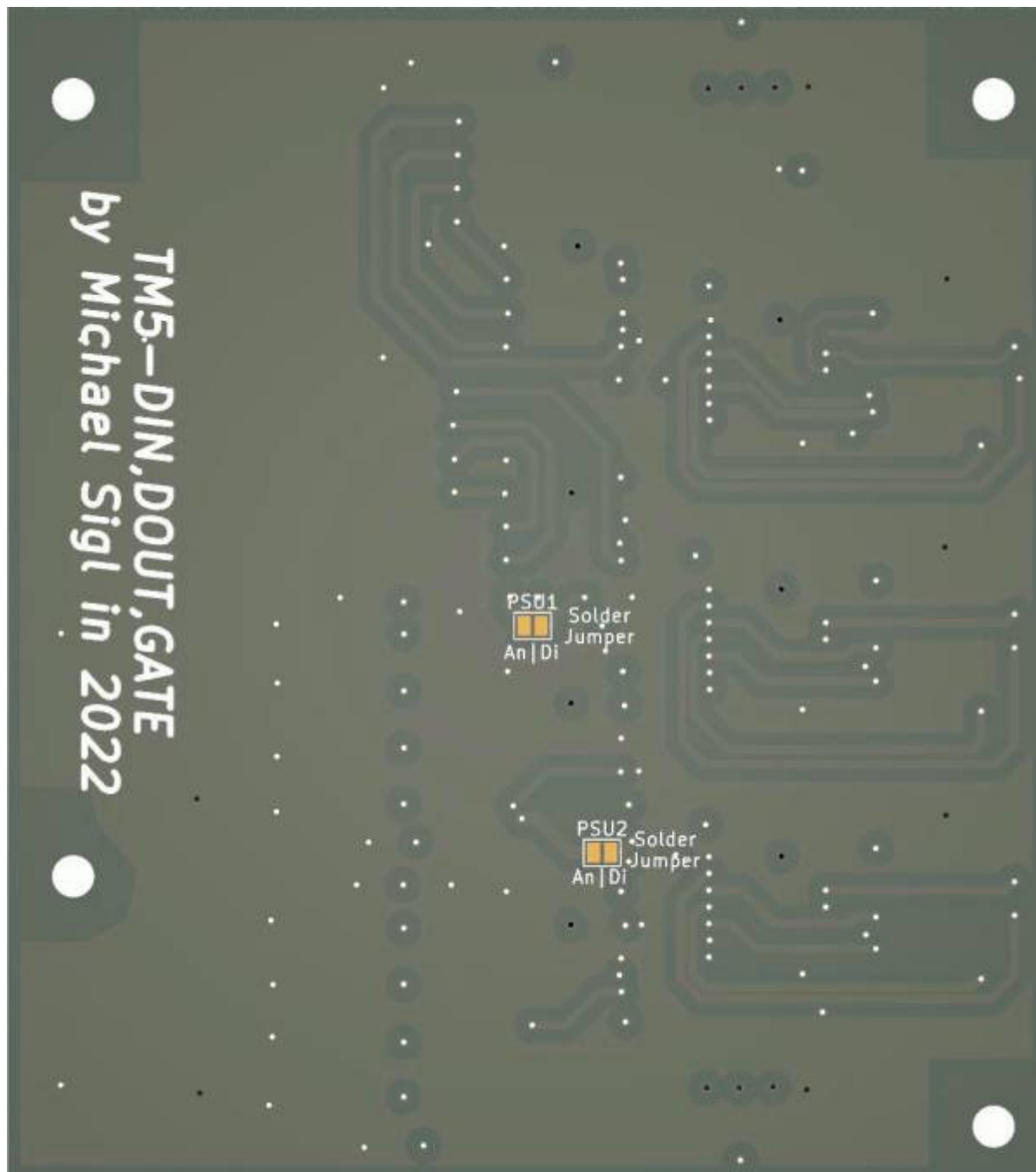


# TM5-DinDoutGates





you need this PCB 1x for [triggermatrix5](#)

**it gives;**

24 Digital Inputs

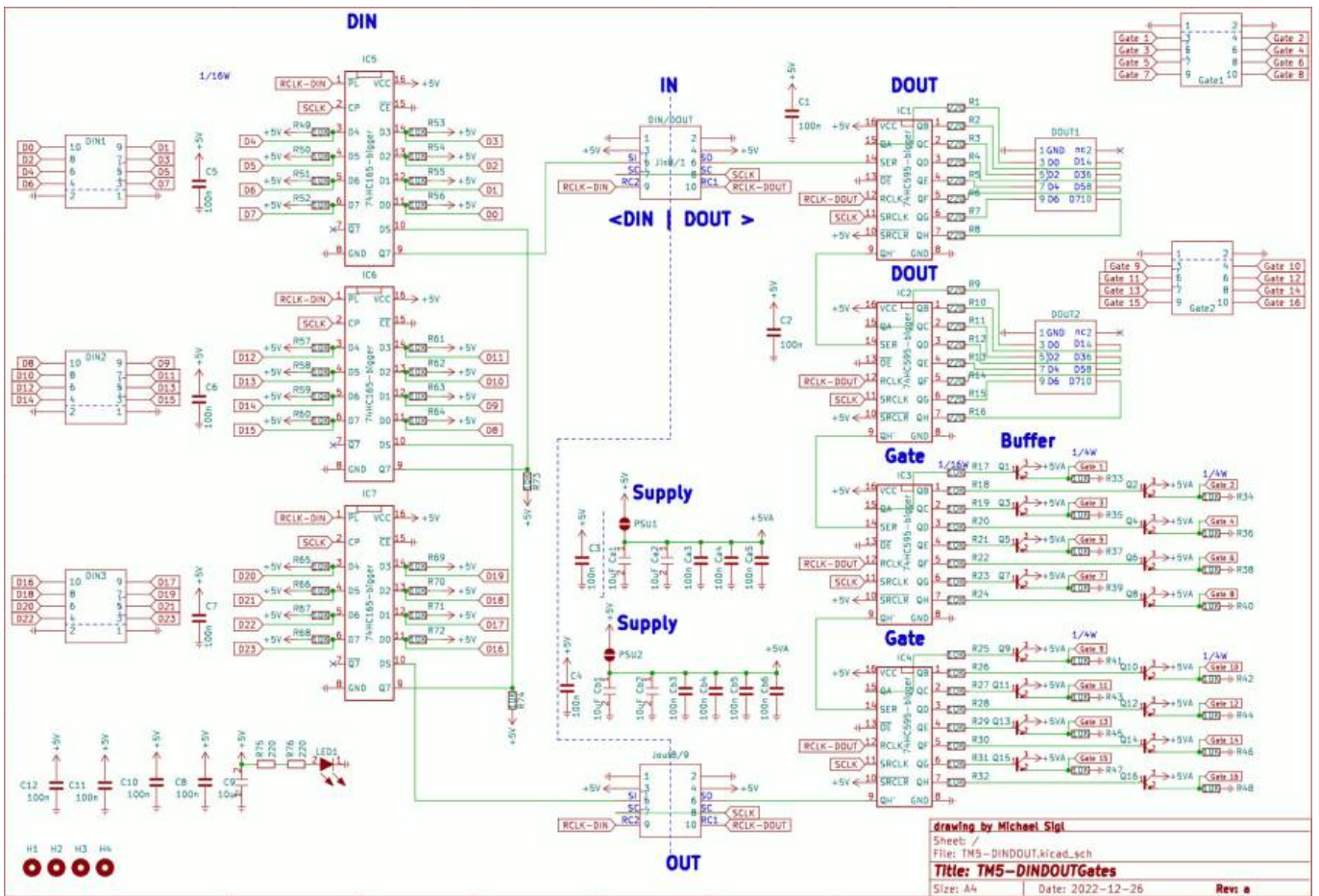
32 Digital Outputs

\* while 16 Outputs are used for UI

\* the other 16 are buffered, and are for use as 16 GAtE/TriggEr output at 5V Level

The Board is fully SMD, and made for pick and place - so no soldering required!

# Schematic



## Building and BOM

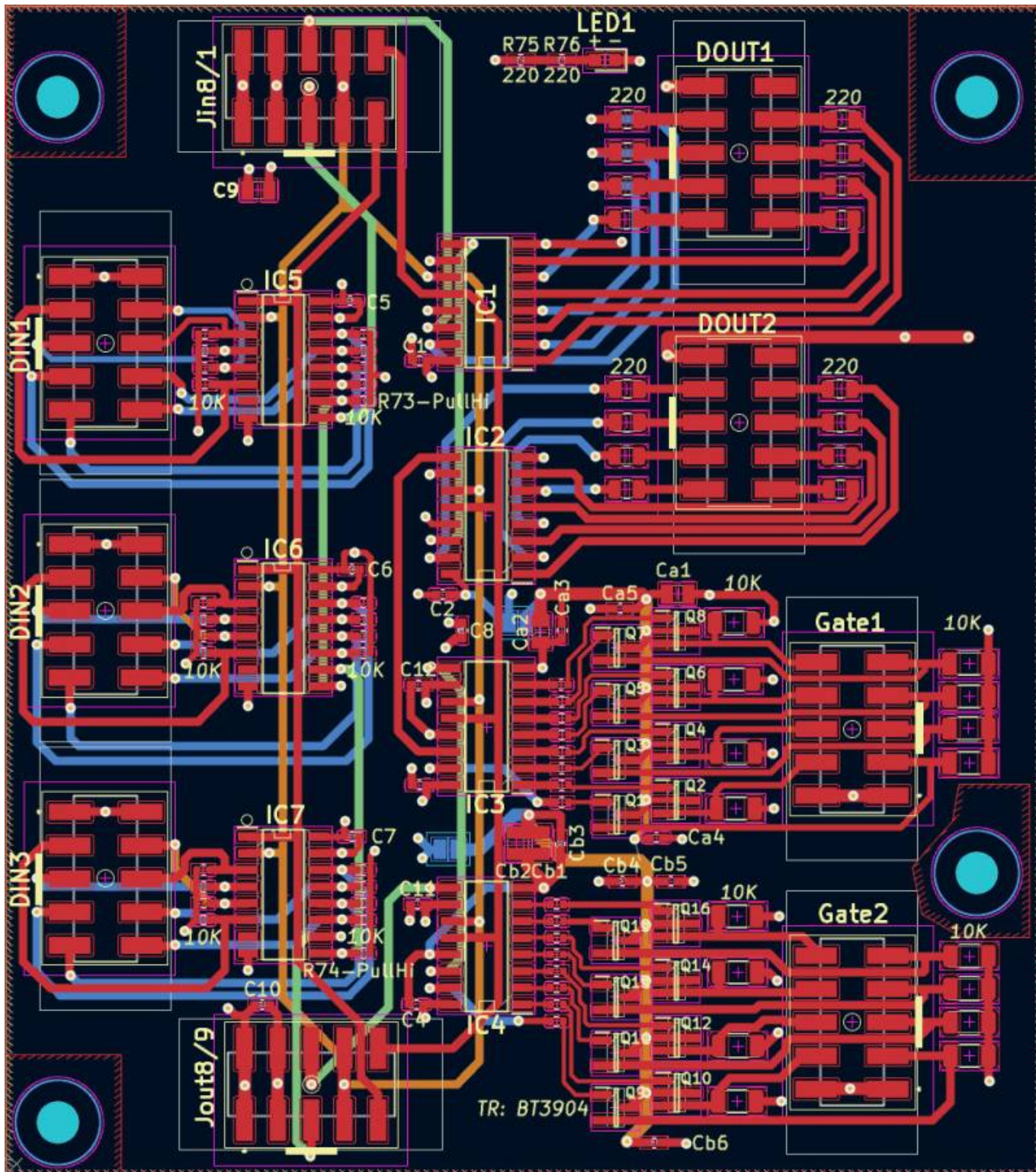
Its build by pick and place robots... so no need to build, or order any component

### BOM

Follwing list is for reference, and debugging only, no need to order them! all the parts are already soldered on the PCB!

qty	reference	value	footprint	jlc
18	C1 - C12, Ca3, Ca4, Ca5, Cb3, Cb4, Cb5, Cb6	100n	C_0402	C307331
5	C9, Ca1, Ca2, Cb1, Cb2	10uF	C0805	C440198
5	DIN1, DIN2, DIN3, Gate1, Gate2	Gates	Pin-Head-10-SMD	C124391
4	DOUT1, DOUT2, jin8/1, jout8/9	DIN/DOUT	Pin-Head-10-SMD	C124391
4	IC1, IC2, IC3, IC4	74HC595-bigger	HC595-smd	C5947
3	IC5, IC6, IC7	74HC165-bigger	HC165-smd	C5613
1	LED1	LED	LED-0603	C2286

qty	reference	value	footprint	jlc
16	Q1 - Q16	MMBT3904-7-F	MMBT3904-7-F	C20526
16	R1 - R16	220	R_0805	C25294
42	R17 - R74	10K	R_0402	C25744
16	R33 - R48	10K	R_1206	C17902
2	R75, R76	220	R_0402	C25091



# To Do

waiting for the assembled Prototype

## Community users working on it

- **Phatline** = PCB & Schematic, UI-Programming, Documentation...

Just let a Private message on the forum to user already involved.

or join the forum: [Triggermatrix 5](#)

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