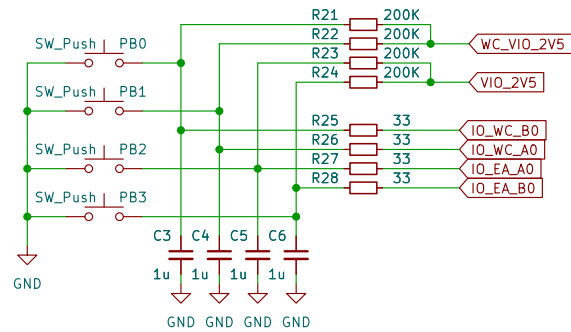


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<https://github.com/fm4dd/gm-study-e1.git>

Sheet: /	
File: gm-study-e1.kicad_sch	
Title: GateMate E1 Study Board	
Size: A4	Date: 2022-09-07
KiCad E.D.A. kicad (6.0.7)	Rev: 1.0
Id: 1/3	

Push Buttons

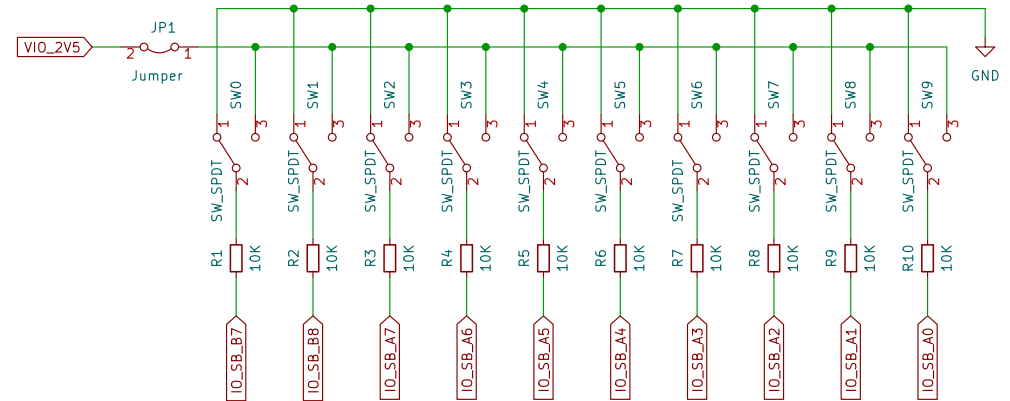
4x push buttons with pull-up. Negative logic: press = 0.



Slide Switches

10x slide switches set GND / +3V3 level signals.

*IO_SB_A8 is skipped because it connects clock0 10MHz



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Sheet: /data-in/
File: data-in.kicad_sch

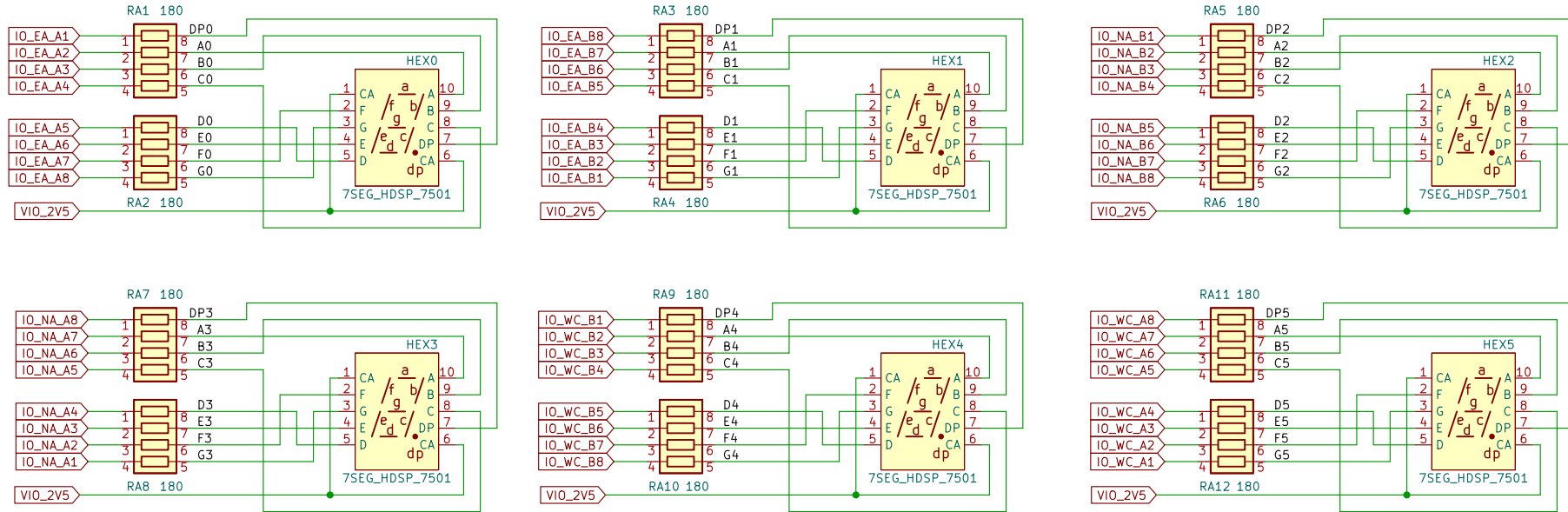
Title: GateMate E1 Study Board – Input Signals

Size: A4 Date: 2022-09-07
KiCad E.D.A. kicad (6.0.7)

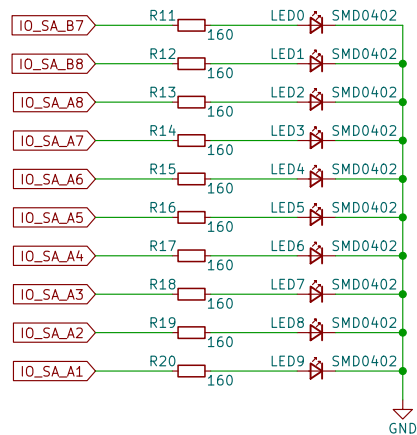
Rev:
Id: 2/3

7-Segment Display

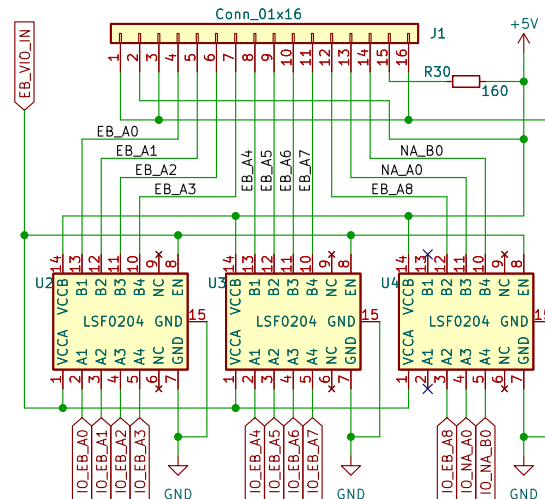
6 Digits, common anode, no multiplexing
Single-digit THT module 0.3" Broadcom HDSP-7501



10x LED Output

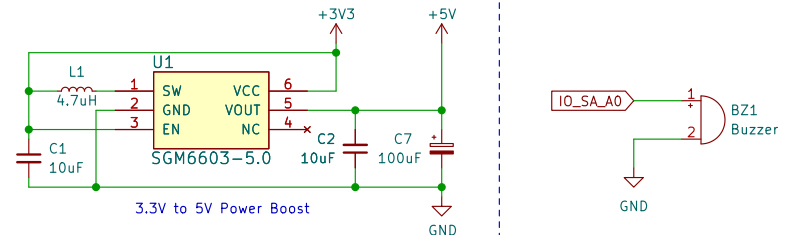


2.54mm generic IO Header



16-pin HD44780 character LCD connector compatible, with level shifter to 5V TTL
Adding R30 powers LCD backlight via pin 15, leave open to disable LCD backlight

Buzzer Output



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<https://github.com/fm4dd/gm-study-e1.git>

Sheet: /data-out/
File: data-out.kicad_sch

Title: GateMate E1 Study Board – Output Signals

Size: A4 Date: 2022-09-07
KiCad E.D.A. kicad (6.0.7)

Rev:
Id: 3/3