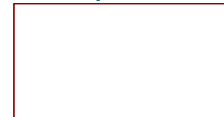


Scratch Register



File: scratch_register.kicad_sch

Input Register



File: input_register.kicad_sch

Output Register

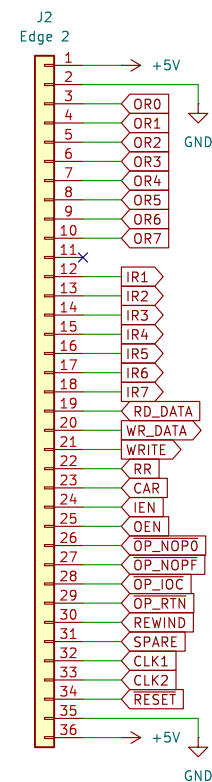
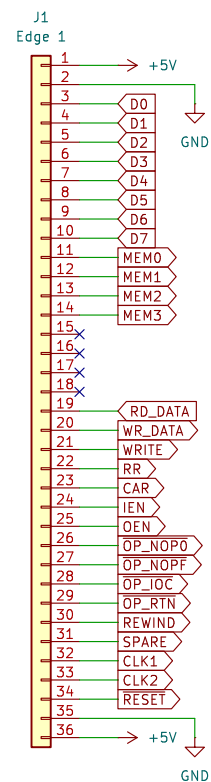


File: output_register.kicad_sch

Tape



File: tape.kicad_sch



Edge Connectors

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Sheet: /
File: UE1-TTL-Memory.kicad_sch

Title: UE1-TTL Memory Module

Size: A4 Date: 2025

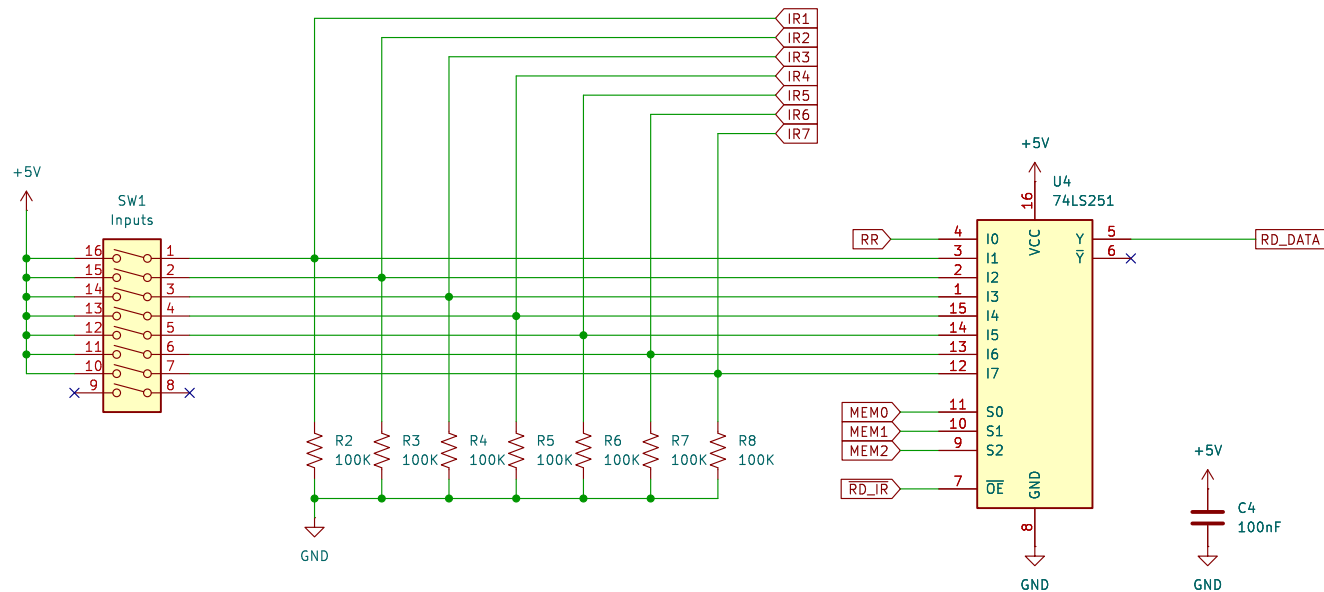
KiCad E.D.A. 8.0.9

Rev: 1

Id: 1/5

Id: 2/5

If the external inputs are driven, then all switches on the memory board must be in the OFF position.



Input Register

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Sheet: /Input Register/
File: input_register.kicad_sch

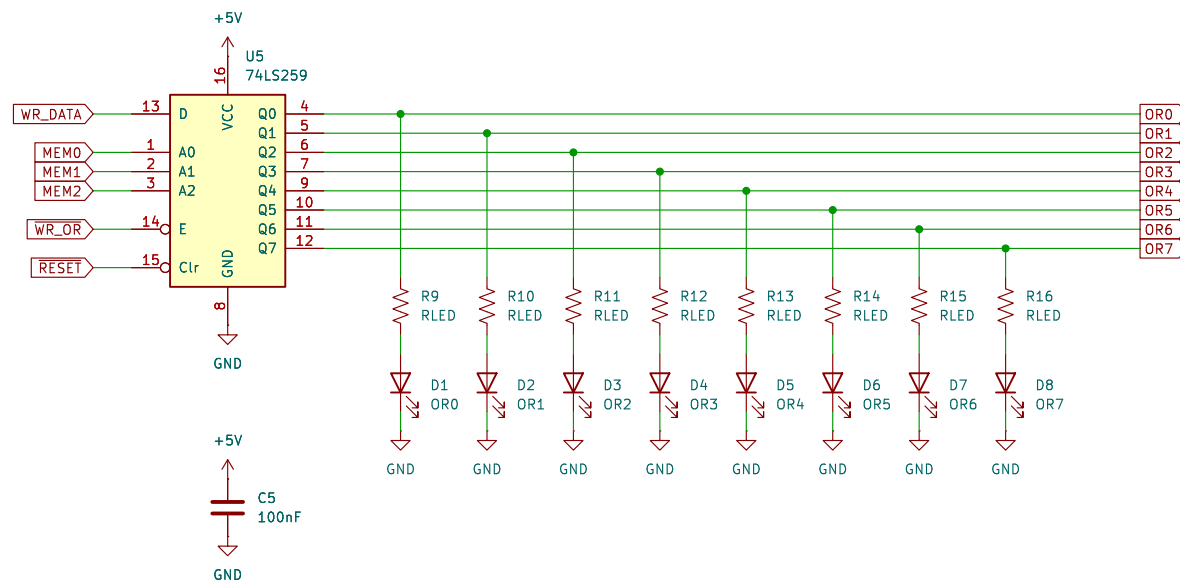
Title: UE1-TTL Memory Module

Size: A4 Date: 2025

KiCad E.D.A. 8.0.9

Rev: 1

Id: 3/5



Choose RLED values to match the properties of the LED's you are using.

$$RLED = (5 - VLED) / ILED$$

Examples:

VLED = 1.7V, ILED = 15mA, RLED = 220R
VLED = 1.9V, ILED = 2mA, RLED = 1550R (1K8 should be fine)
VLED = 1.9V, ILED = 10mA, RLED = 310R (330R should be fine)

Recommend 2mA LED's to reduce current draw on TTL outputs

Output Register

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Sheet: /Output Register/
File: output_register.kicad_sch

Title: UE1-TTL Memory Module

Size: A4 Date: 2025

KiCad E.D.A. 8.0.9

Rev: 1

Id: 4/5

