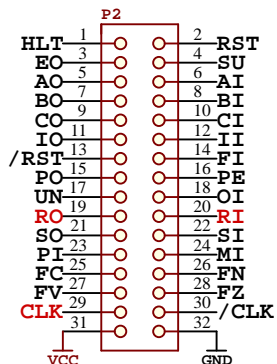
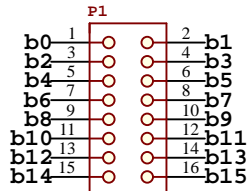


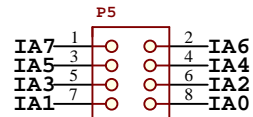
Control BUS Connector



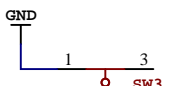
Data BUS Connector



Address INPUT connector

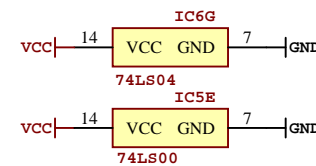
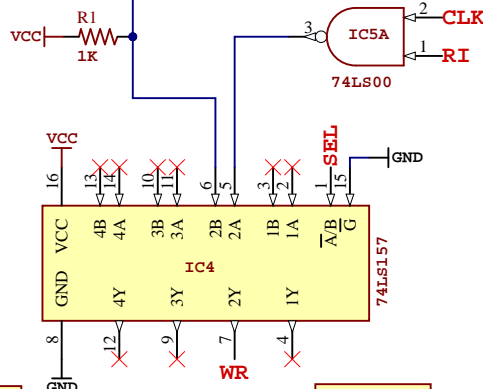


PROG Mode WR

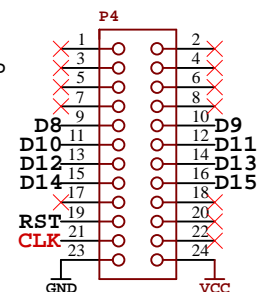


Active RI Signal is HIGH from CSM. Has to combine with clock signal to get a WR (LOW) signal for a synchronized write to memory.

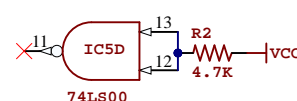
RUN Mode WR



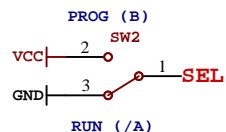
Output Connector



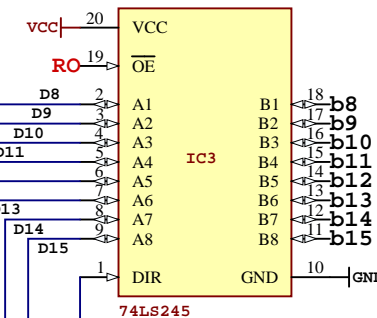
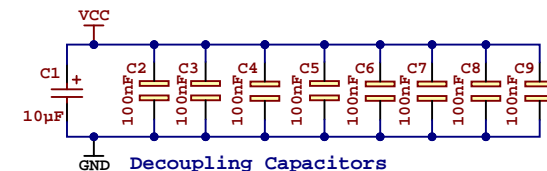
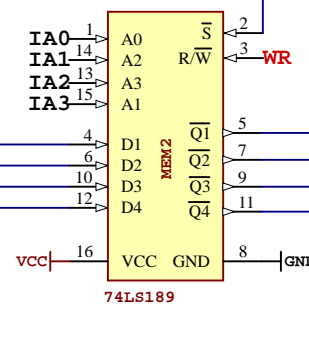
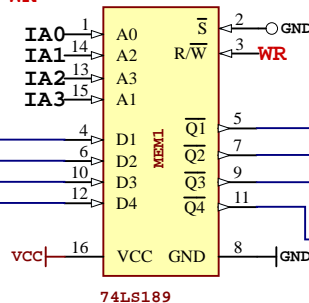
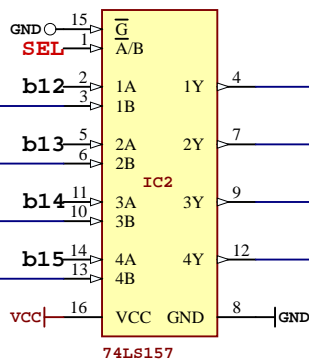
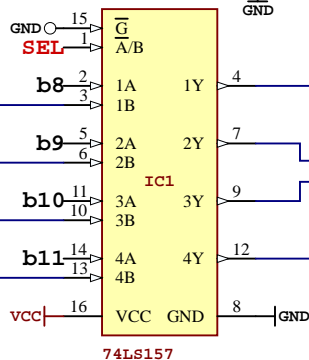
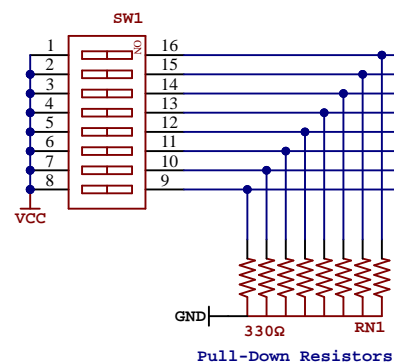
Unused TTL inputs



Programming Mode Switch



Using only the less significative word of the address from MAR module: A0-A3. Supporting only 4 bit

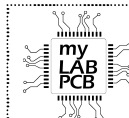


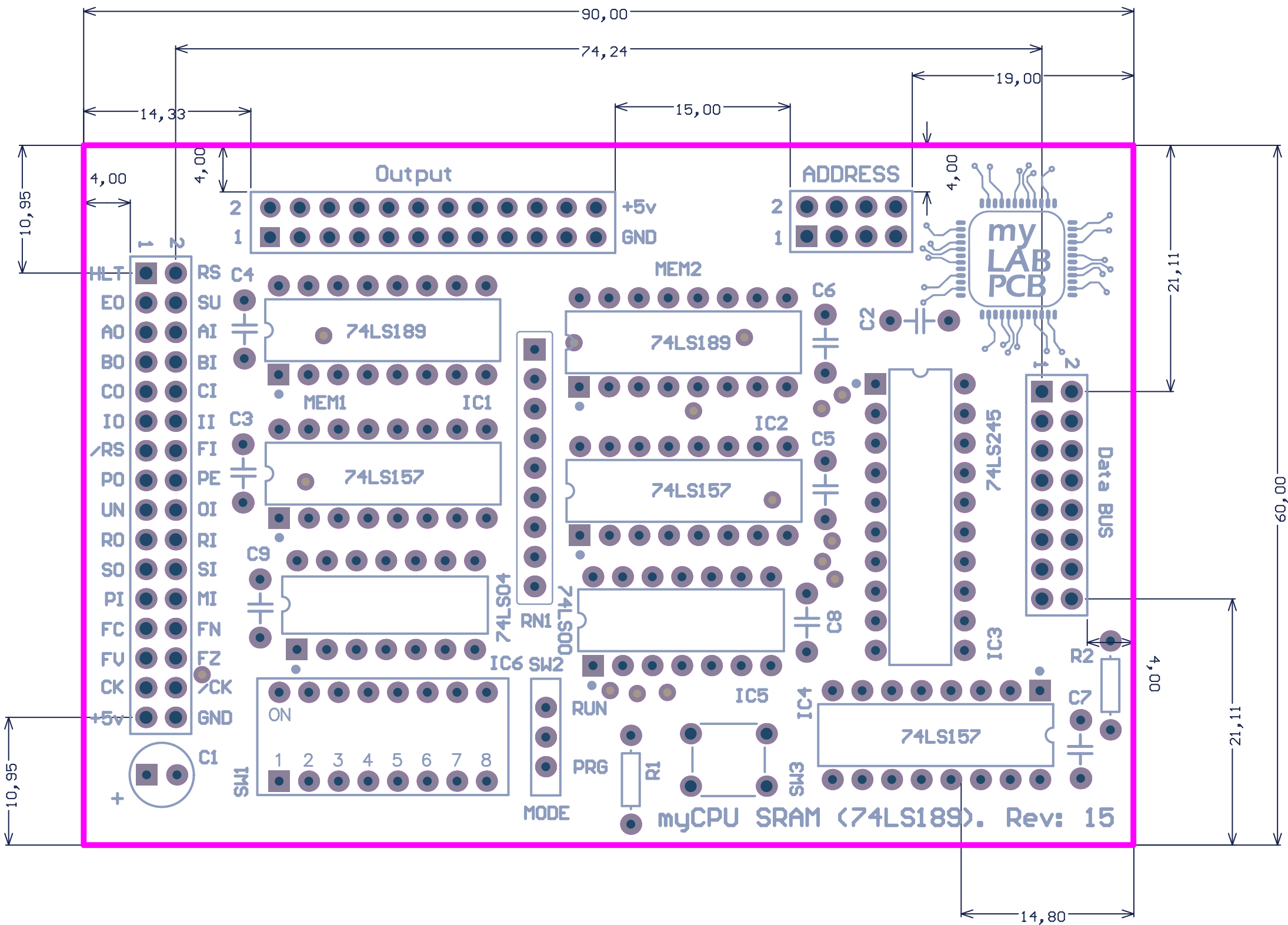
Project: myCPU SRAM module (Ver: 189)

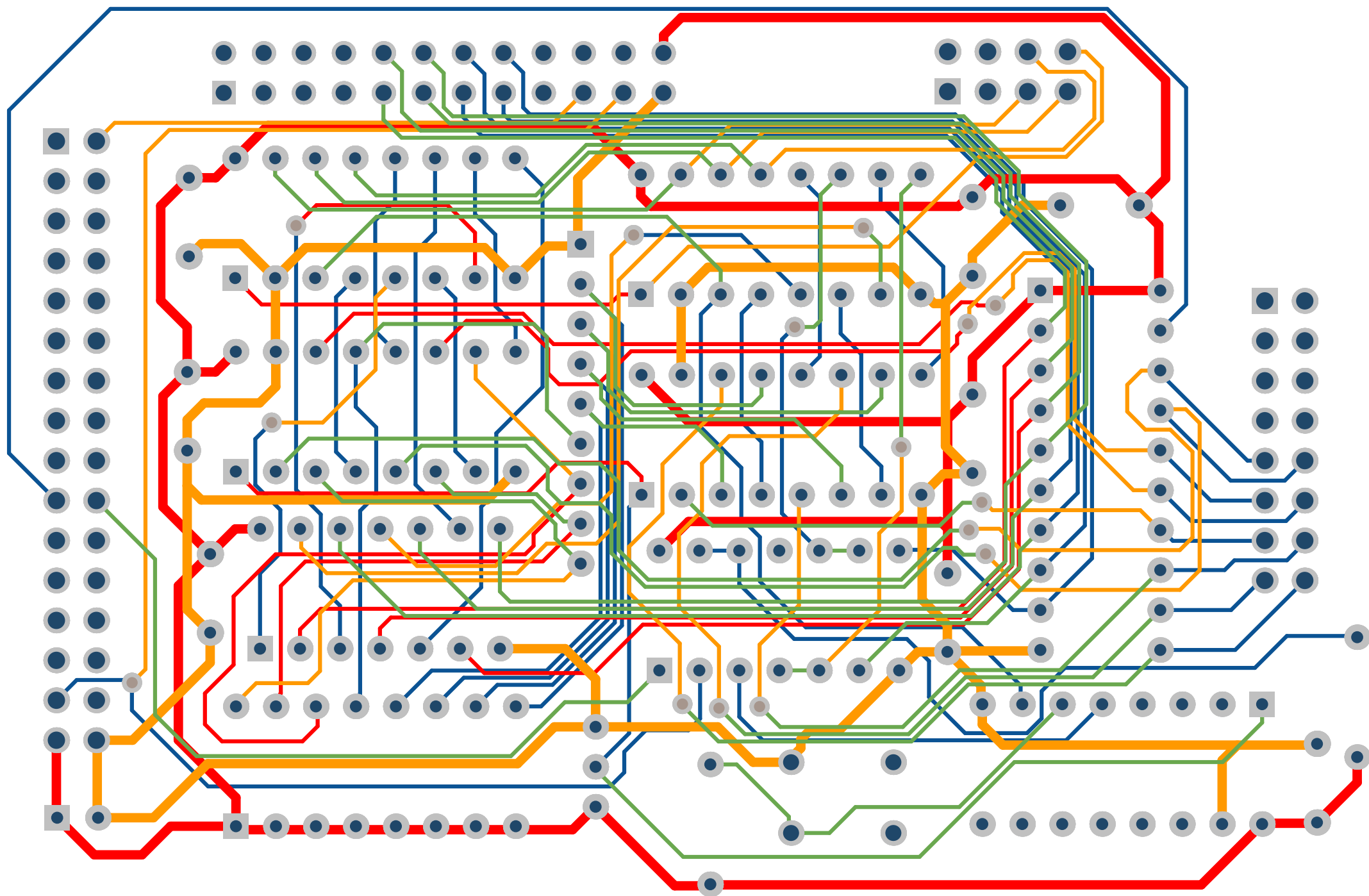
Revision: 15

Date: 17/11/2022

Author: Rafa Hernández









Bill of Materials

Designator	Description	Value	Q
C1	Electrolytic capacitor 16v/50v	10 μ F	1
C2, C3, C4, C5, C6,	Ceramic capacitor	100nF	8
IC1, IC2, IC4	4-Bits 2-Line to 1 Line data selector	74LS157	3
IC3	Non inverting bus transceiver	74LS245	1
IC5	Quad 2-input NAND gates	74LS00	1
IC6	Hex inverters	74LS04	1
MEM1, MEM2	SRAM 16x1 inverted outputs	74LS189	2
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p	1
P2	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p		1
P4	Socket Header, THT, pitch 2.54mm, Dual Row, Vertical,	24p	1
P5	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 8p	8p	1
R1	Resistor Axial	1K	1
R2	Resistor Axial	4.7K	1
RN1	Resistor array 8 elements, 9 pins	330 Ω	1
SW1	DIP switch 8 positions	8 pos	1
SW2	Mini slide switch 2 pos, 3 pins		1
SW3	Tactile button 6 mm	6mm	1



Assembly List

Designator	Description	Value
C1	Electrolytic capacitor 16v/50v	10 μ F
C2	Ceramic capacitor	100nF
C3	Ceramic capacitor	100nF
C4	Ceramic capacitor	100nF
C5	Ceramic capacitor	100nF
C6	Ceramic capacitor	100nF
C7	Ceramic capacitor	100nF
C8	Ceramic capacitor	100nF
C9	Ceramic capacitor	100nF
IC1	4-Bits 2-Line to 1 Line data selector	74LS157
IC2	4-Bits 2-Line to 1 Line data selector	74LS157
IC3	Non inverting bus transceiver	74LS245
IC4	4-Bits 2-Line to 1 Line data selector	74LS157
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IC6	Hex inverters	74LS04
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