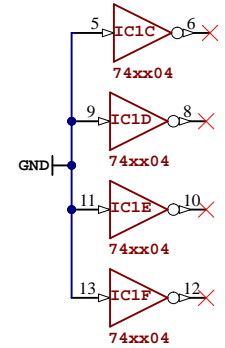
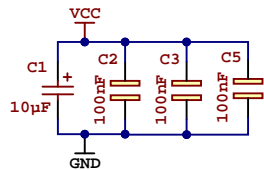


Pinout diagram for the P2 port of the 8051 microcontroller. The diagram shows 32 pins arranged in two columns. The left column (pins 1-31) includes HLT, BO, AO, BO, CO, IO, /RST, PO, UN, RO, SO, PI, FC, FV, and CLK. The right column (pins 2-32) includes RST, SU, AI, BI, CI, II, FI, PE, OI, RI, SI, MI, FN, FZ, and /CLK. Pins 1 and 2 are connected to VCC, and pins 31 and 32 are connected to GND.

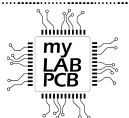
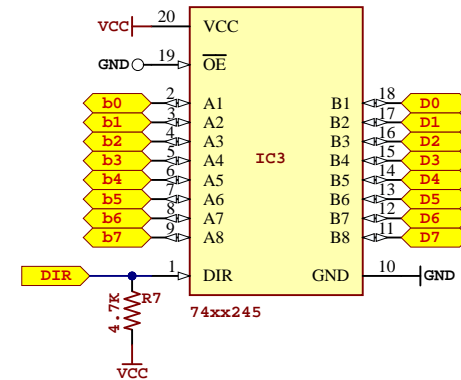
P3				
XRST	1	○	2	DIR
CLK	3	○	4	/CLK
FV	5	○	6	FZ
FC	7	○	8	FN
MI	9	○	10	
SO	11	○	12	FI
RO	13	○	14	PI
UN	15	○	16	SI
OI	17	○	18	RI
PE	19	○	20	PO
IO	21	○	22	II
CO	23	○	24	CI
BO	25	○	26	BI
AO	27	○	28	AI
EO	29	○	30	SU
RST	31	○	32	HLT



Default direction is OUTPUT from A to B, to avoid conflicts when no controller connected.



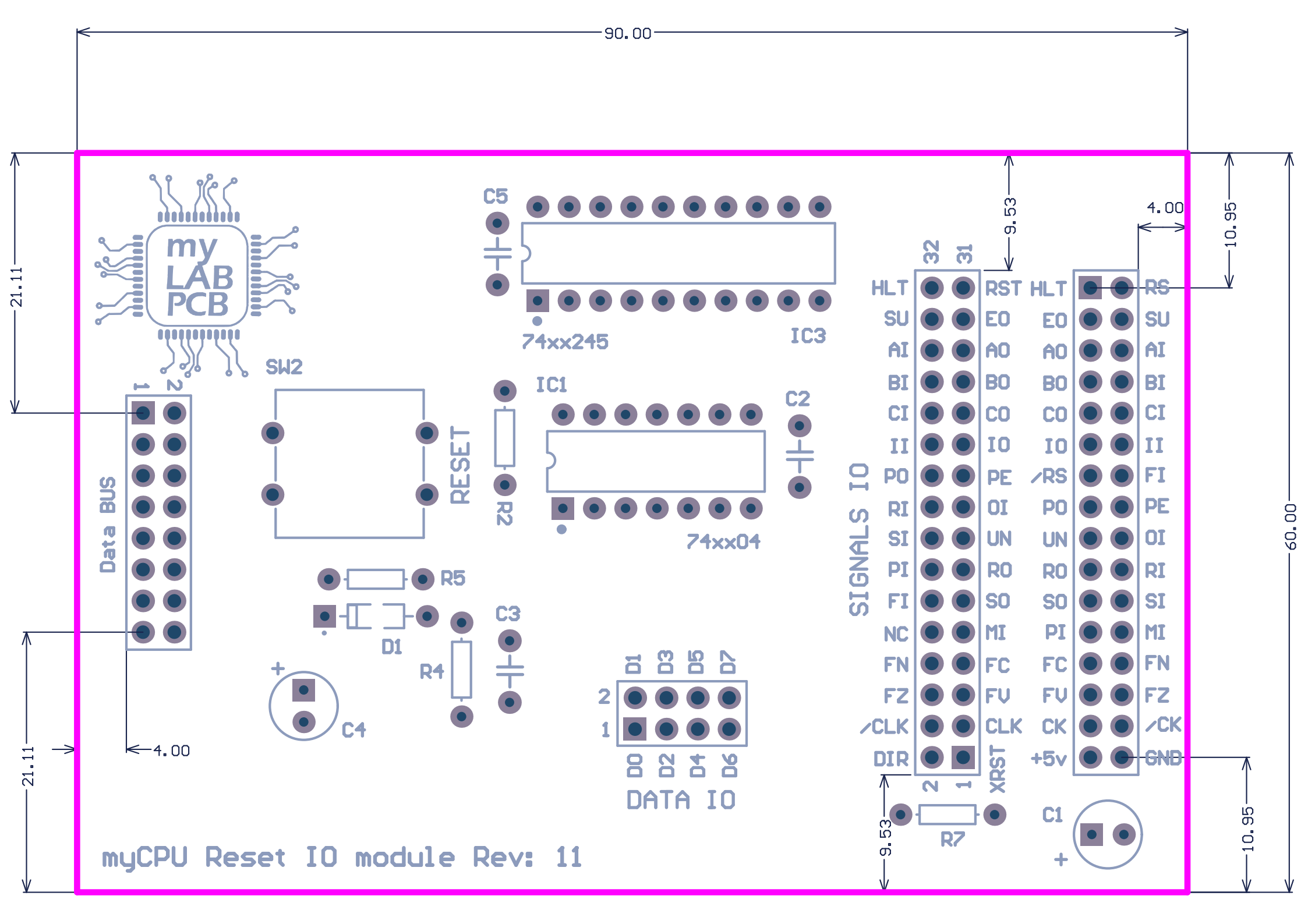
Decoupling Capacitors

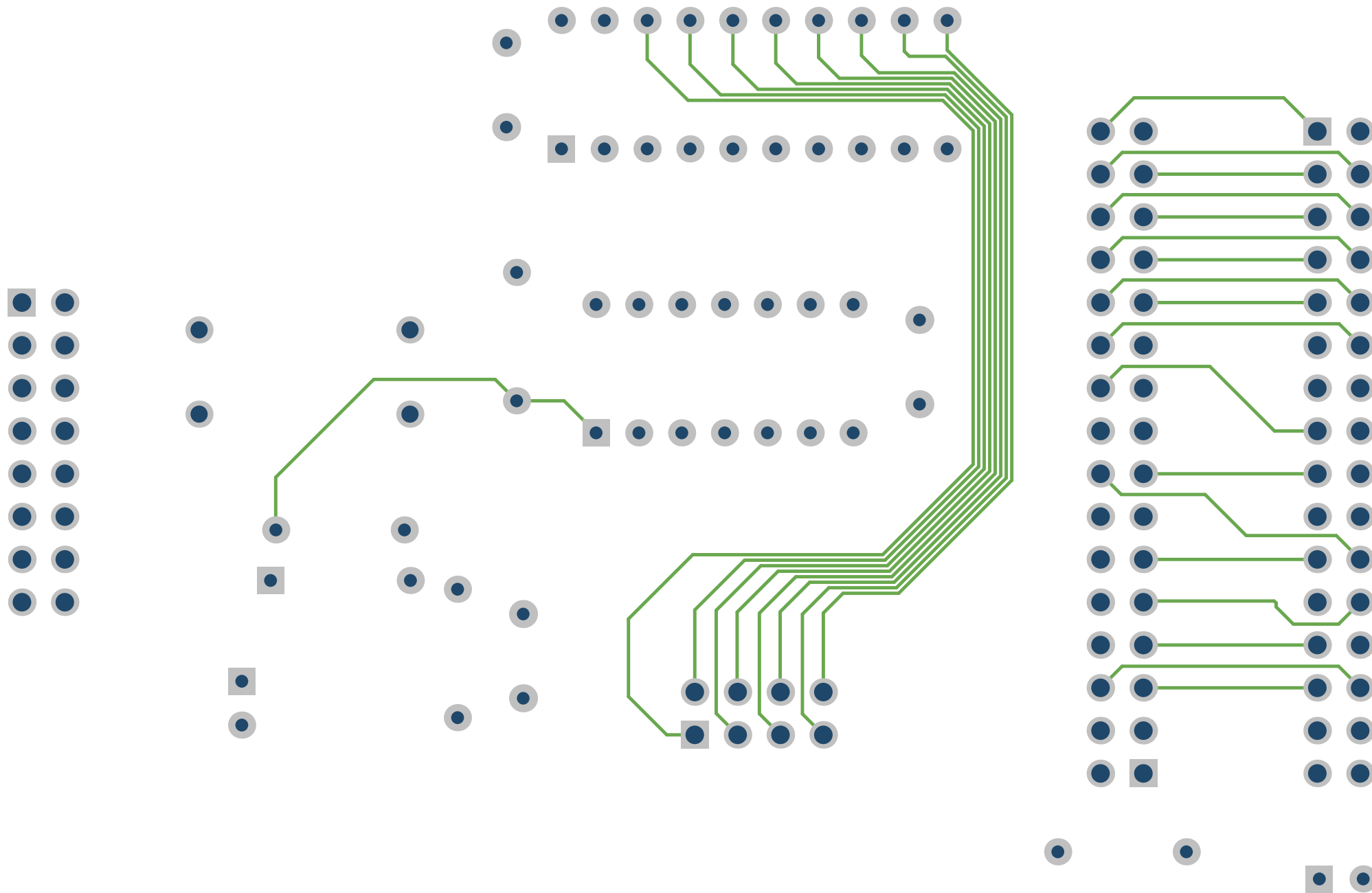


Project: myCPU Reset IO module

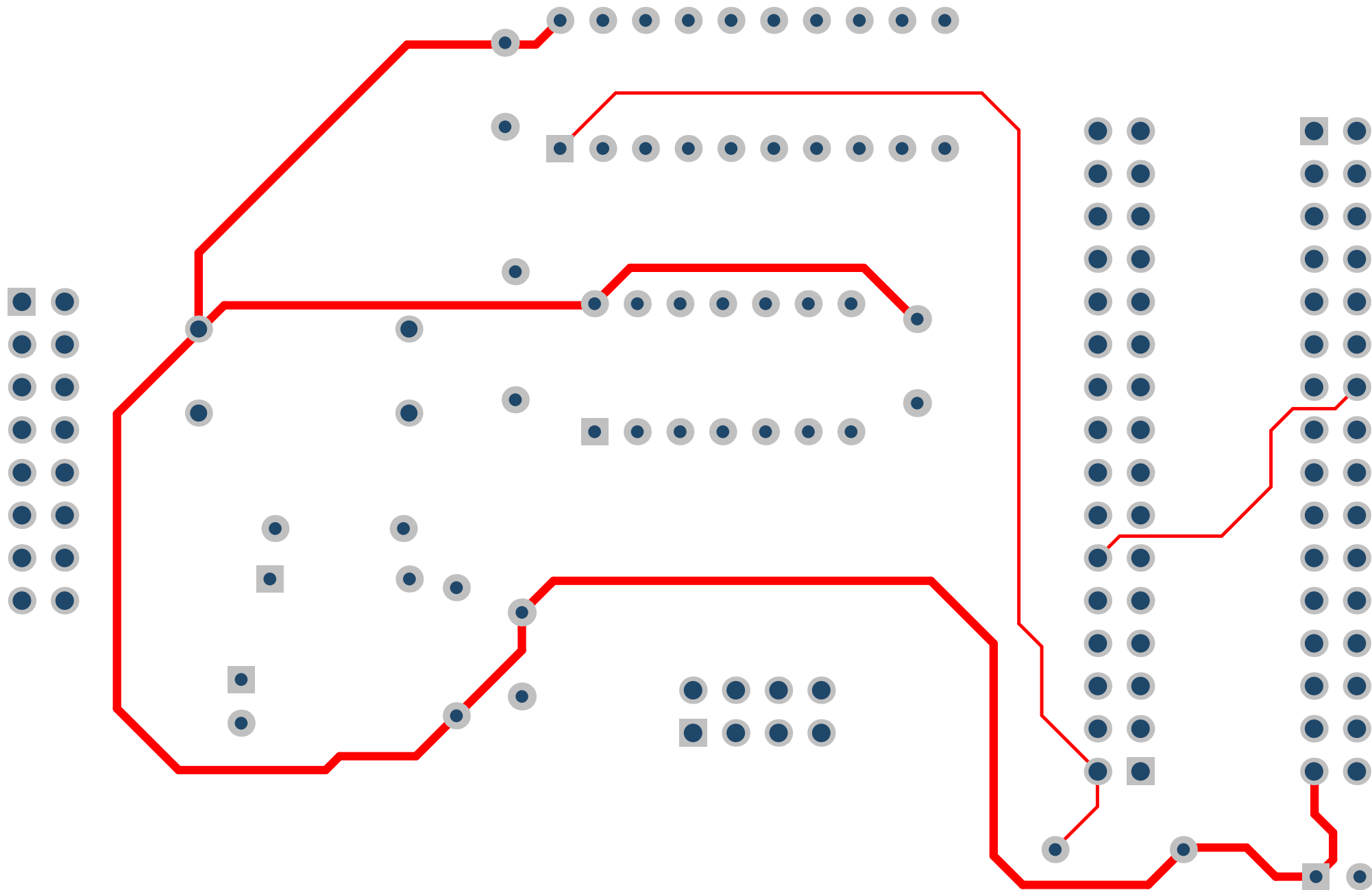
Revision: 11

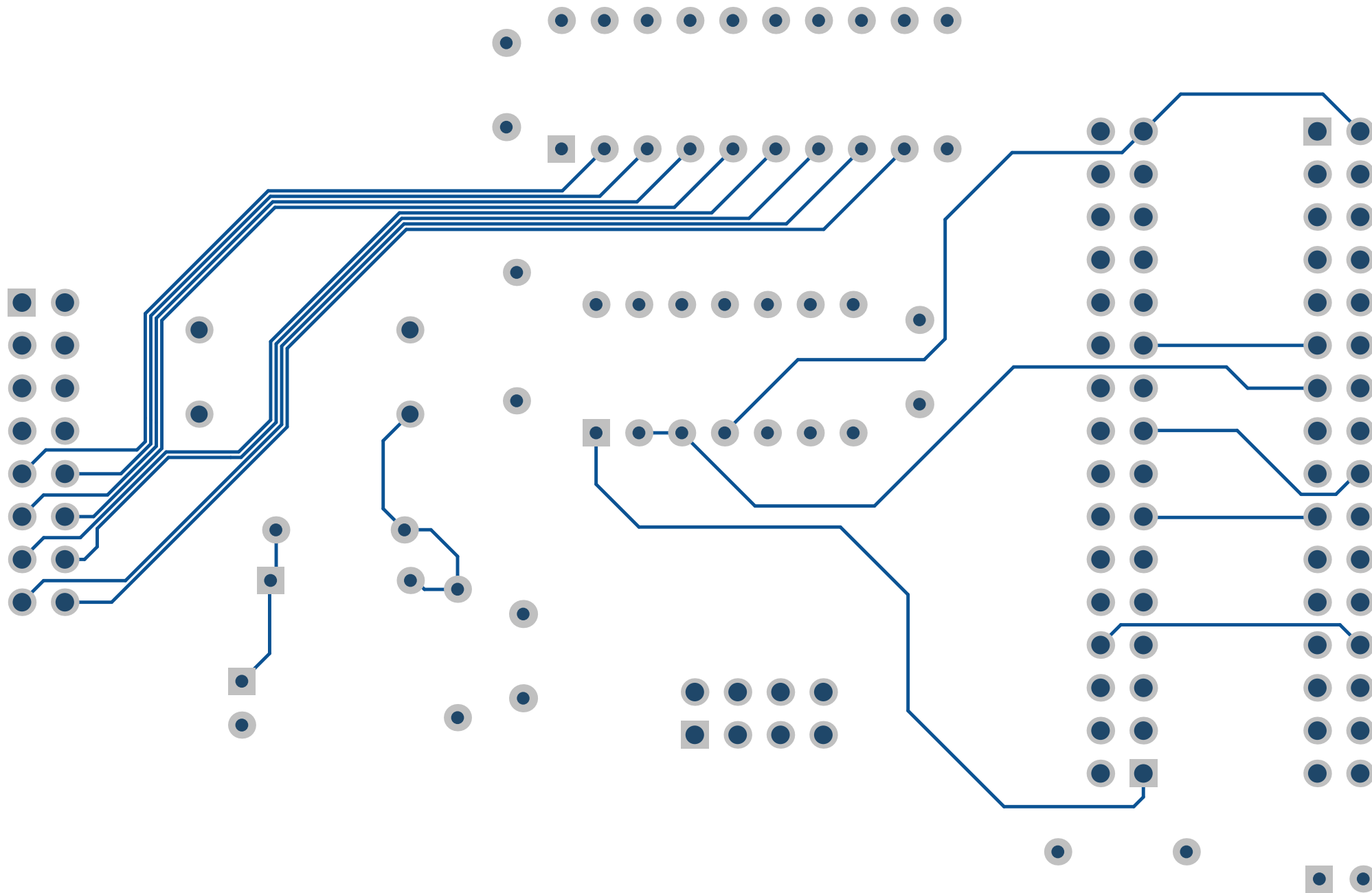
Author: Rafa Hernández













Bill of Materials

myCPU Reset IO module

Description	Value	Q
Electrolytic capacitor 16v/50v	10µF	1
Ceramic capacitor	100nF	2
Electrolytic capacitor 16v/50v	1uF	1
Switching Signal Diode	1N4148	1
Hex inverters	74xx04	1
Non inverting bus transceiver	74xx245	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	16p	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	32p	2
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	8p	1
Resistor Axial	330	1
Resistor Axial	100K	1
Resistor Axial	6.8K	1
Resistor Axial	4.7K	1
Tactile button 12 mm	12mm	1



Assembly List

myCPU Reset IO module

Designator	Description	Value
C1	Electrolytic capacitor 16v/50v	10 μ F
C2	Ceramic capacitor	100nF
C4	Electrolytic capacitor 16v/50v	1 μ F
C5	Ceramic capacitor	100nF
D1	Switching Signal Diode	1N4148
IC1	Hex inverters	74xx04
IC3	Non inverting bus transceiver	74xx245
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	16p
P2	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	32p
P3	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	32p
P4	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	8p
R2	Resistor Axial	330
R4	Resistor Axial	100K
R5	Resistor Axial	6.8K
R7	Resistor Axial	4.7K
SW2	Tactile button 12 mm	12mm