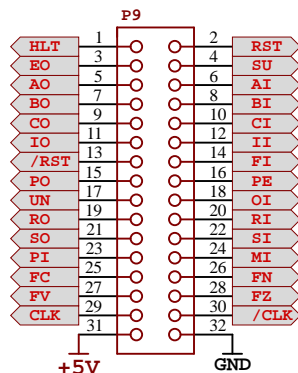
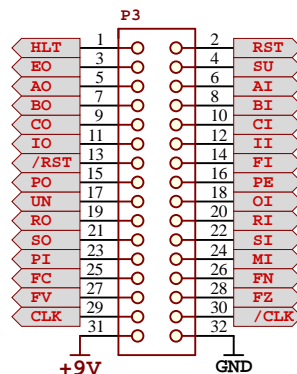


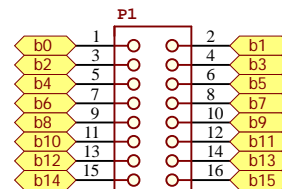
Right Connector - Control BUS



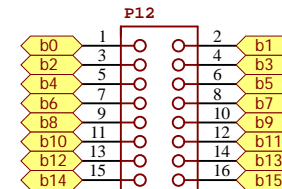
Bottom Pin Header - Control BUS



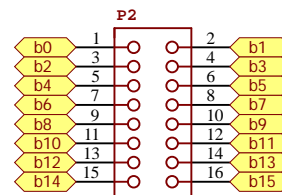
Bottom Pin Header - Data BUS



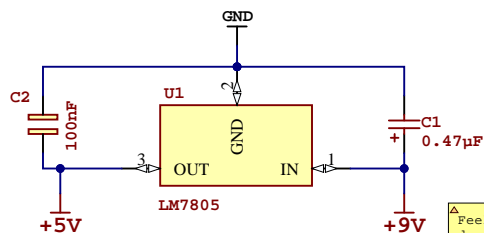
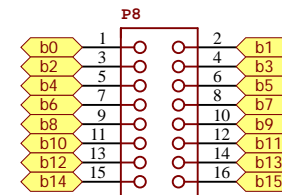
Left Connector - Data BUS



Top Socket Header - Data BUS



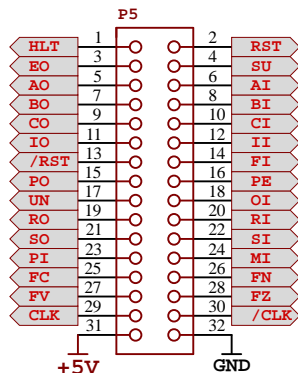
Right Connector - Data BUS



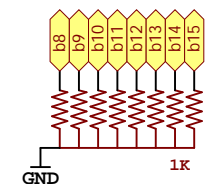
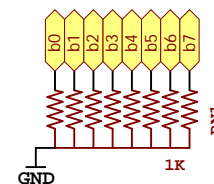
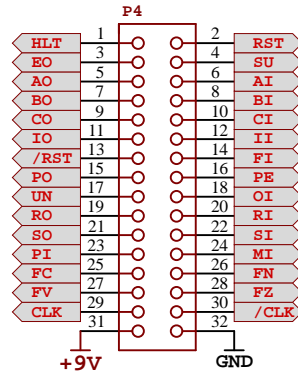
+5v Voltage Regulator

A Feel free to choose the value for C1 depending of the quality of the +9V input.

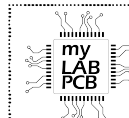
Left Connector - Control BUS



Top Socket Header - Control BUS



A The recommended calculated value for data BUS pull-down resistors is around 130 to 200 ohms. The value is calculated following the parallel resistors rule involving all the resistor connected to the data bus. So pull-down resistor arrays should have a value according to the calculated value.

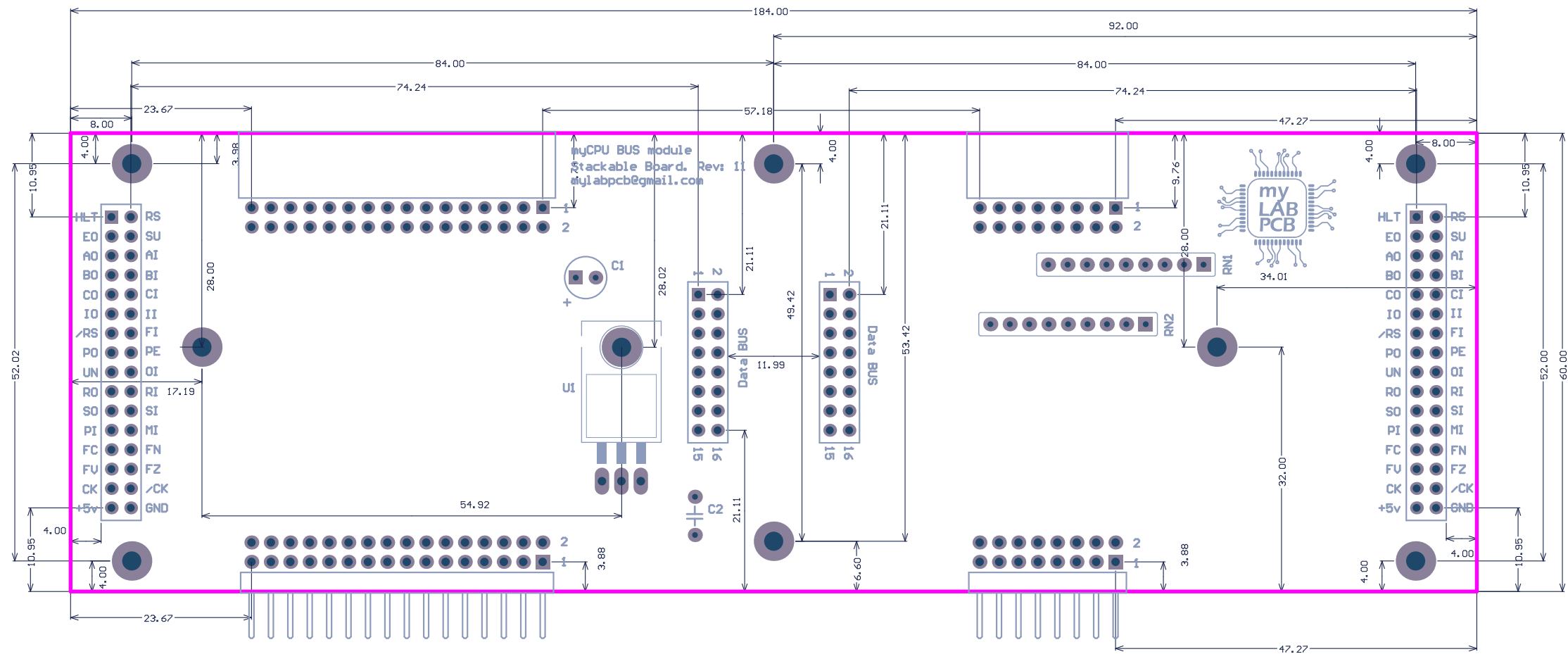


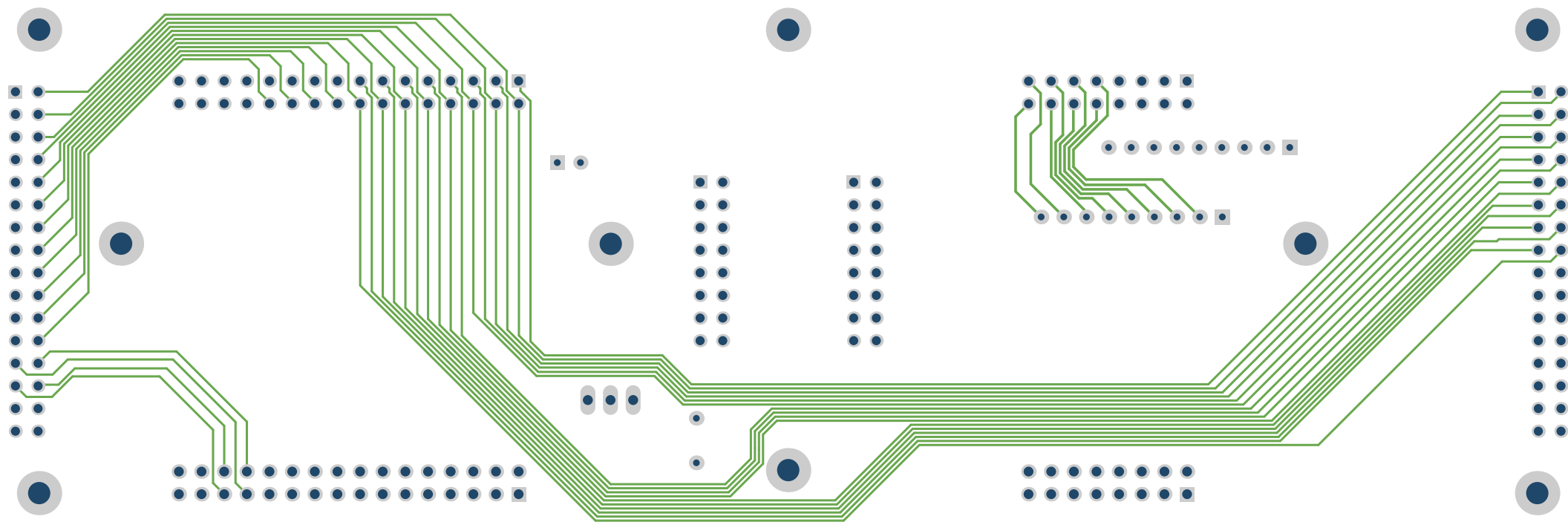
Project: myCPU BUS module

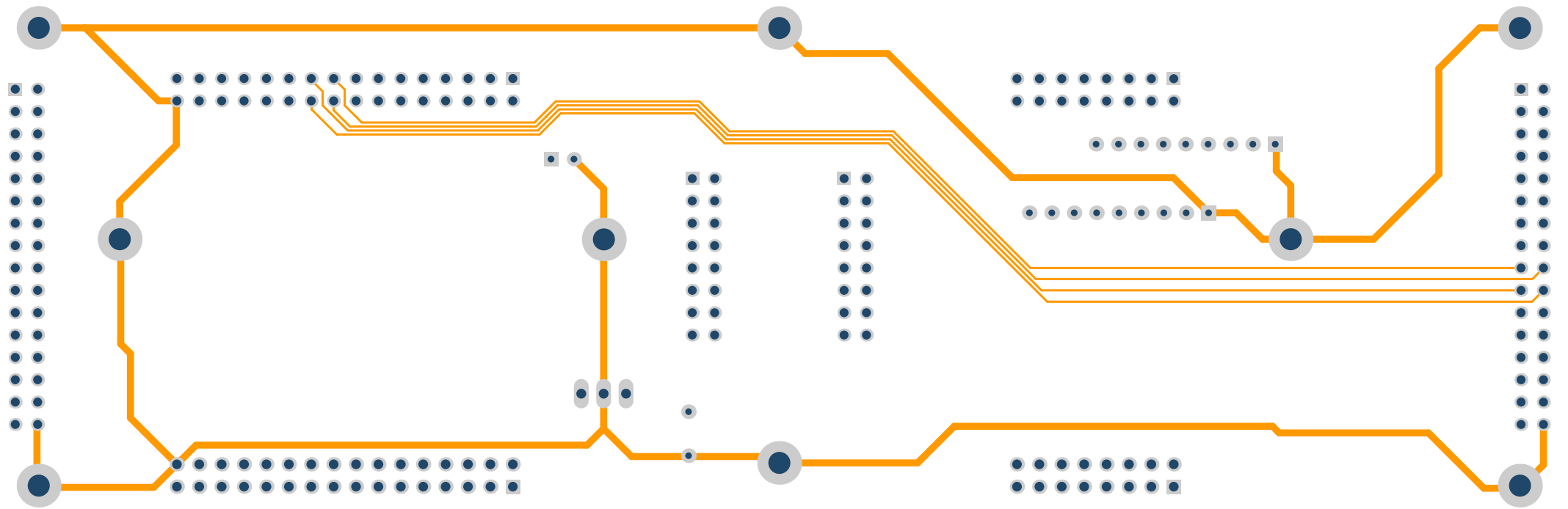
Revision: 11

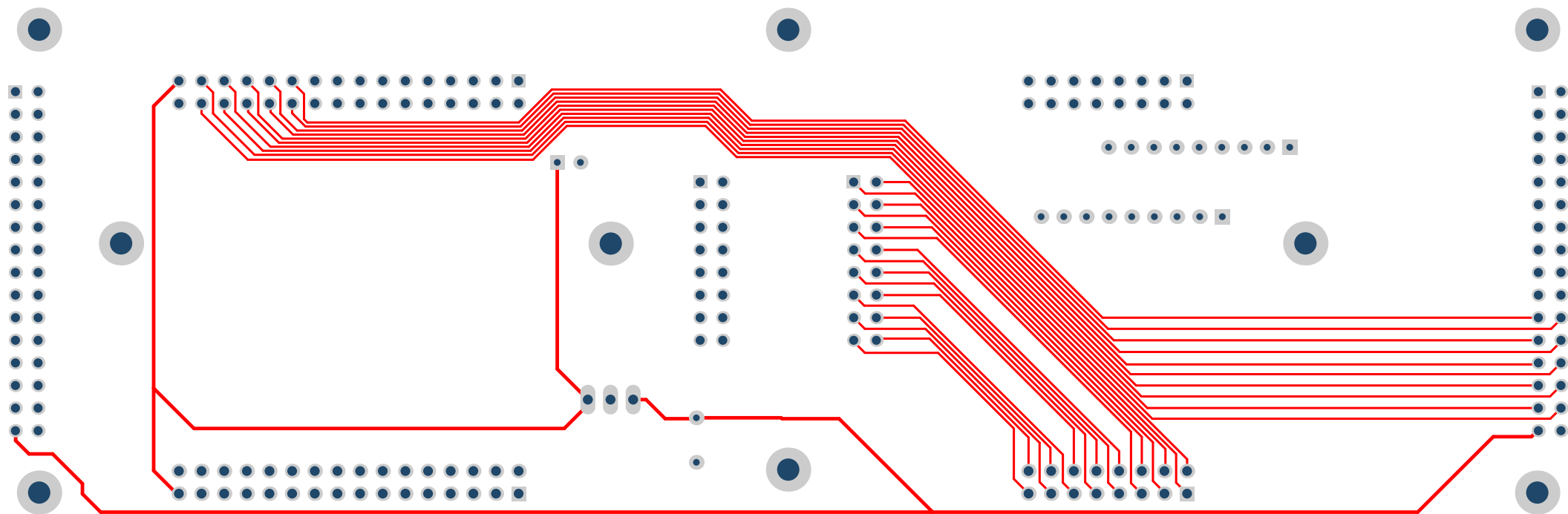
Date: 19-Sep-24

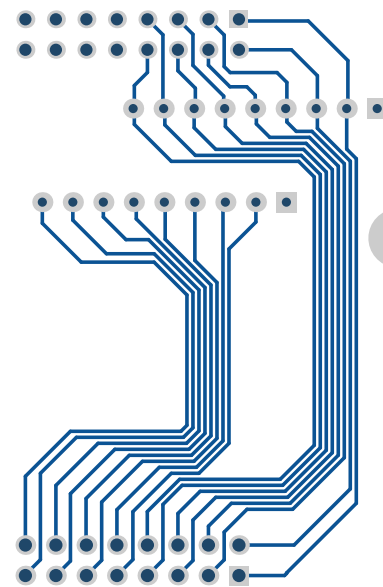
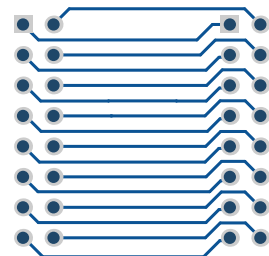
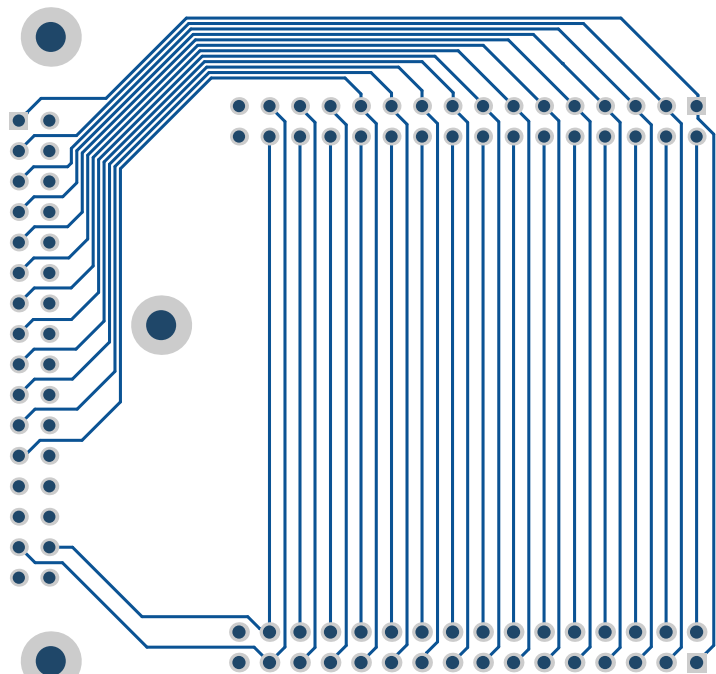
Author: Rafa Hernández













Bill of Materials

myCPU BUS module

Description	Value	Q
Electrolytic capacitor 16v/50v	0.47 μ F	1
Ceramic capacitor	100nF	1
Pin Header, THT, pitch 2.54mm, Dual Row, Angled, 16p	16p	1
Socket Header, THT, pitch 2.54mm, Dual Row, Angled, 16p	16p	1
Pin Header, THT, pitch 2.54mm, Dual Row, Angled, 32p	32p	1
Socket Header, THT, pitch 2.54mm, Dual Row, Angled, 32p	32p	1
Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p	32p	2
Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p	2
Resistor array 8 elements,9 pins	1K	2
5v/1A Voltage Regulator	LM7805	1



Assembly List

myCPU BUS module

Designator	Description	Value
C1	Electrolytic capacitor 16v/50v	0.47 μ F
C2	Ceramic capacitor	100nF
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Angled, 16p	16p
P2	Socket Header, THT, pitch 2.54mm, Dual Row, Angled, 16p	16p
P3	Pin Header, THT, pitch 2.54mm, Dual Row, Angled, 32p	32p
P4	Socket Header, THT, pitch 2.54mm, Dual Row, Angled, 32p	32p
P5	Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p	32p
P8	Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p
P9	Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p	32p
P12	Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p
RN1	Resistor array 8 elements,9 pins	1K
RN2	Resistor array 8 elements,9 pins	1K
U1	5v/1A Voltage Regulator	LM7805