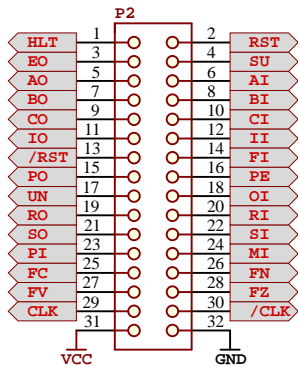
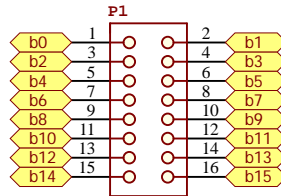


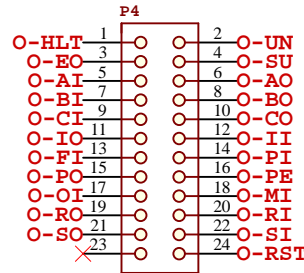
Control BUS Connector



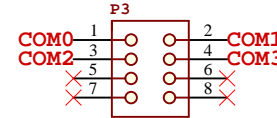
Data BUS Connector



CSM Connector

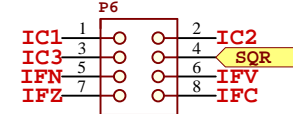


Instruction Register Connector

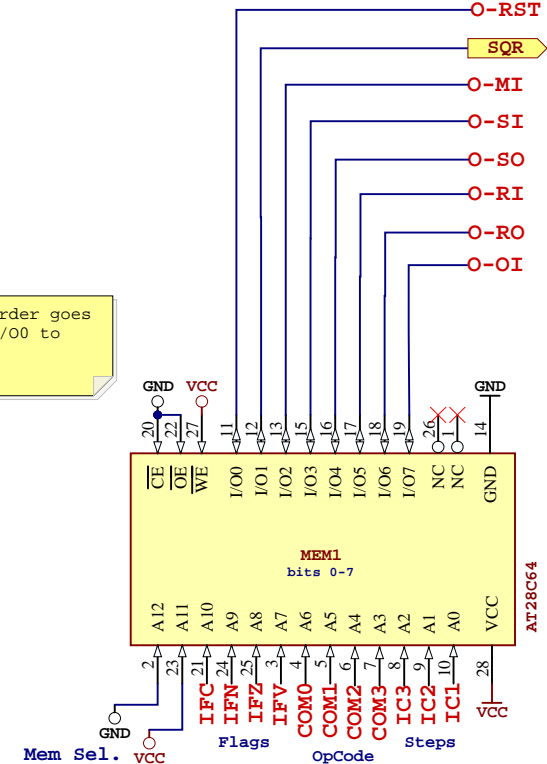
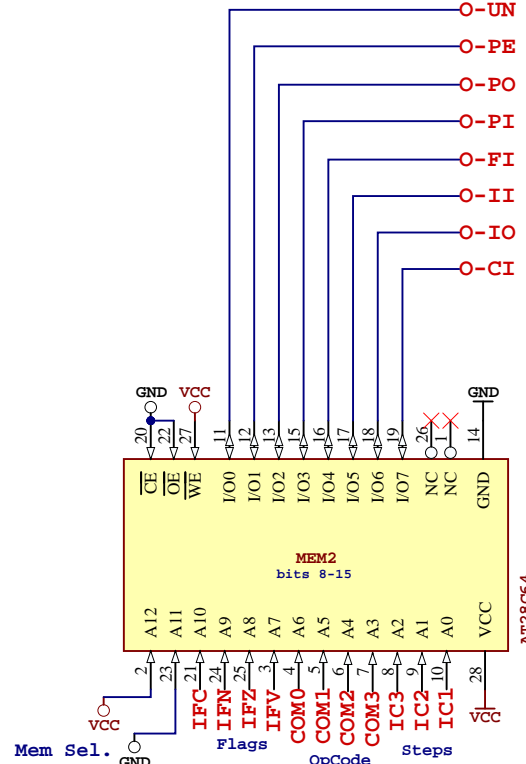
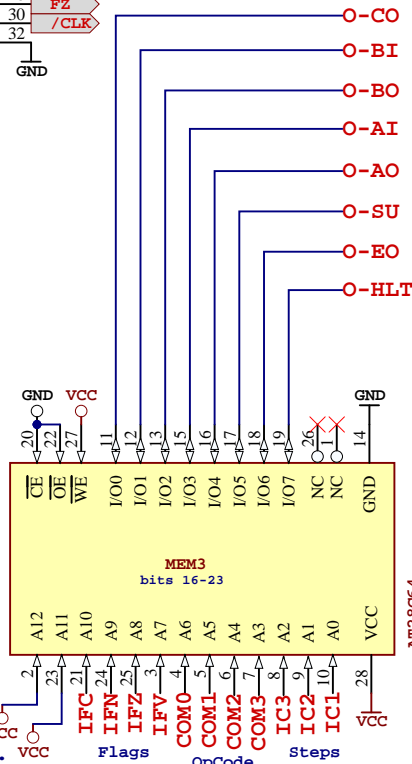


This I.Decoder revision use only the most 4 significative bits from instruction register corresponding to the instruction OPCODE.

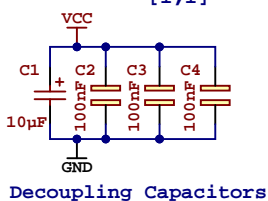
Flags register + Sequencer Connector



Flags inputs (IFN,IFV,IFZ,IFC) come from the Flag Register, there are not the current values of FV,FZ,FN,FC placed on the control BUS but the values stored in the Flags register.



Data bit order goes from pin I/O0 to I/O7



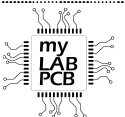
Memory selector set which microinstruction part, of the entire microinstruction, are stored in each memory module: MEM1 holds the less significative byte of bits 0-7, MEM2 holds the byte 8-15 and MEM3 holds byte 16-23

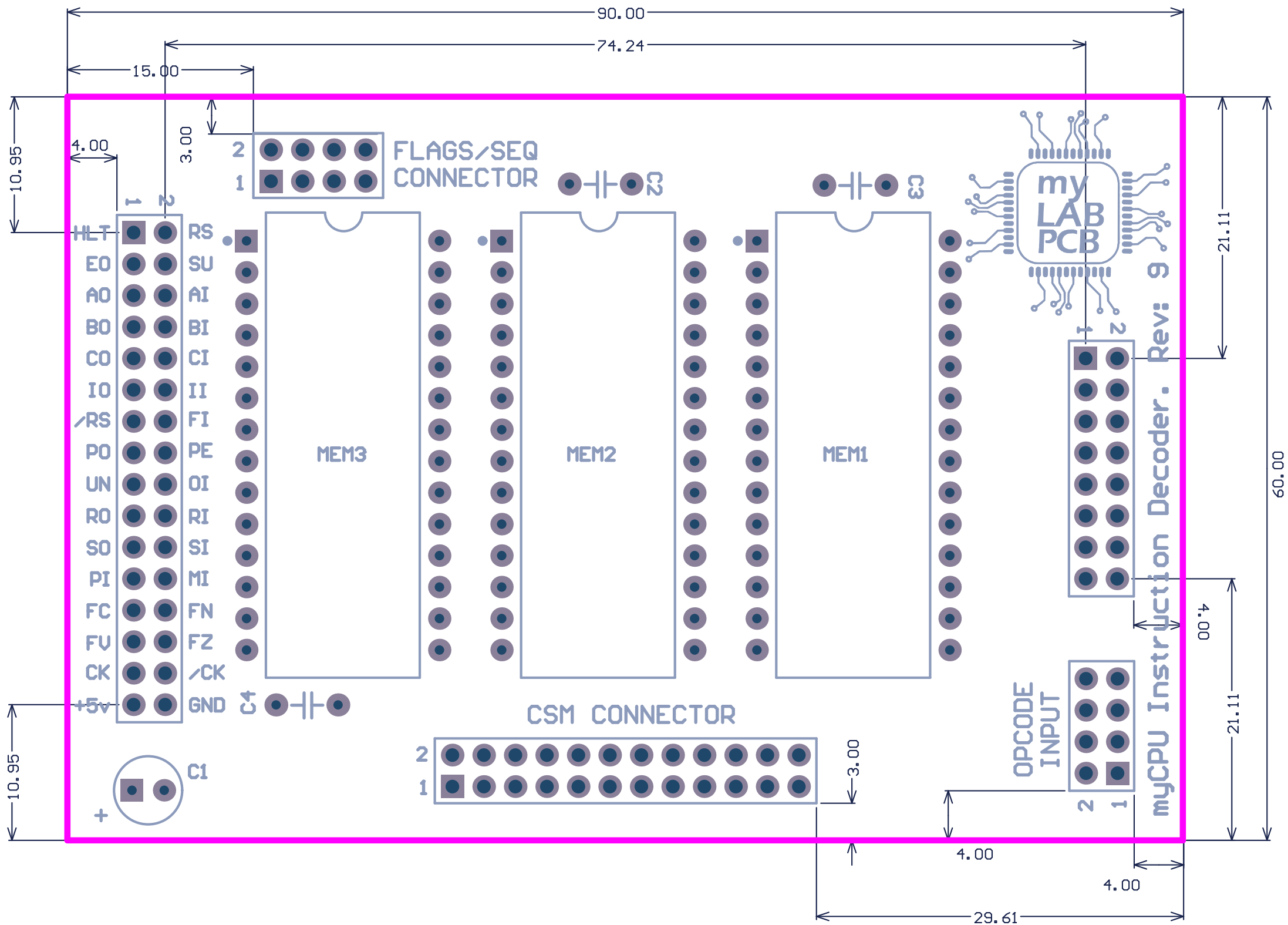
Project: myCPU Instruction Decoder module

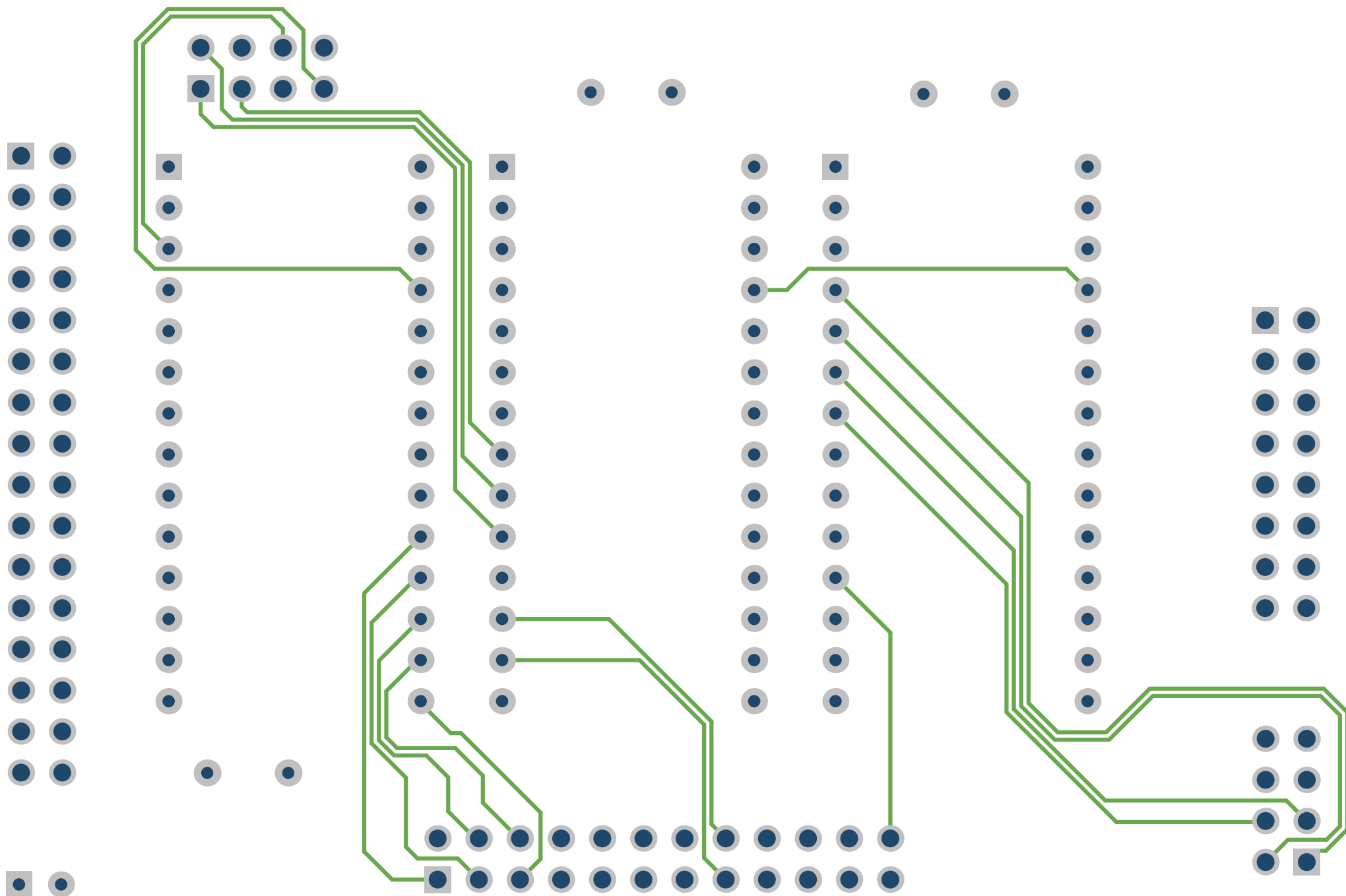
Revision: 9

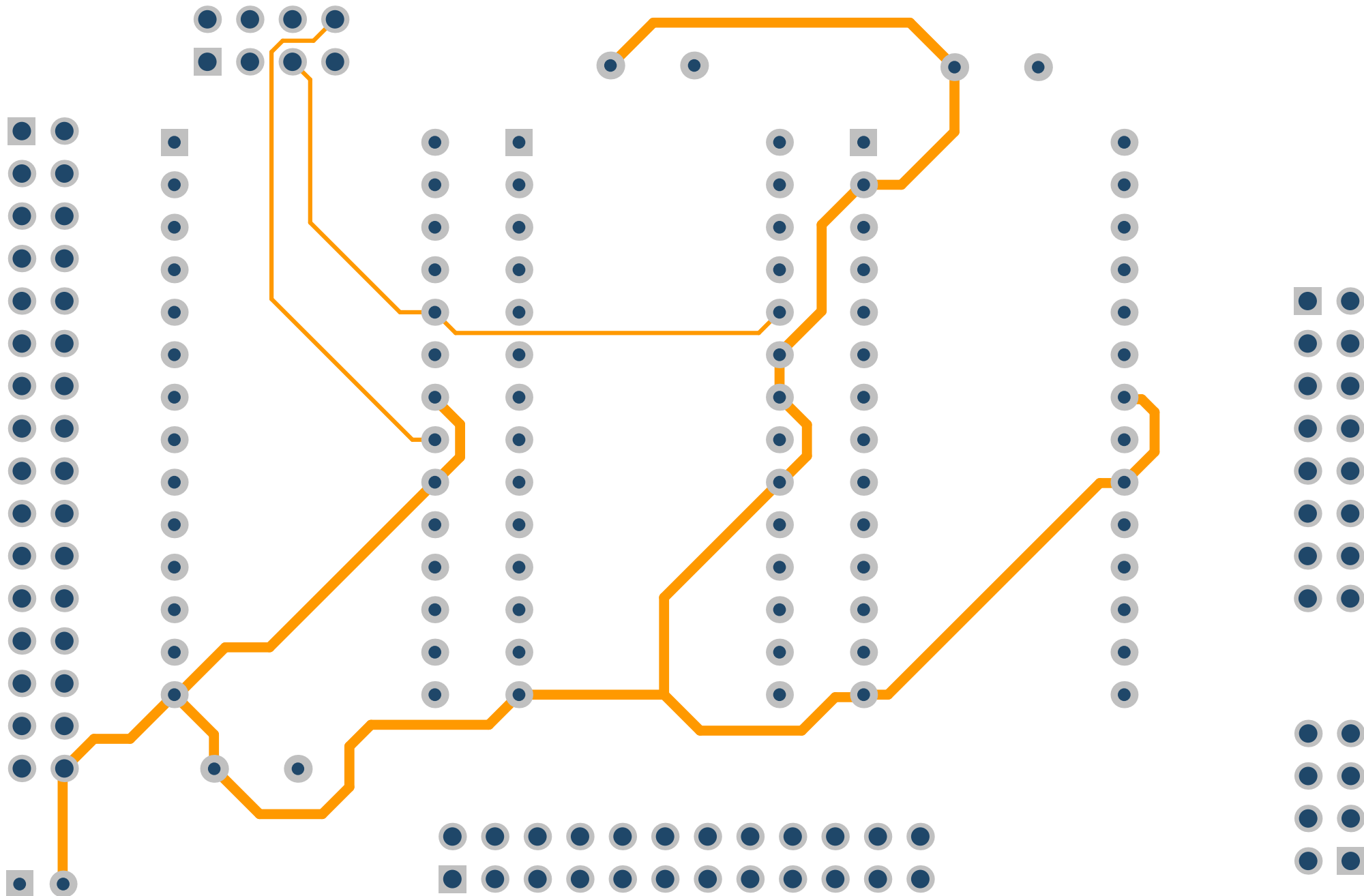
Date: 04-Jan-24

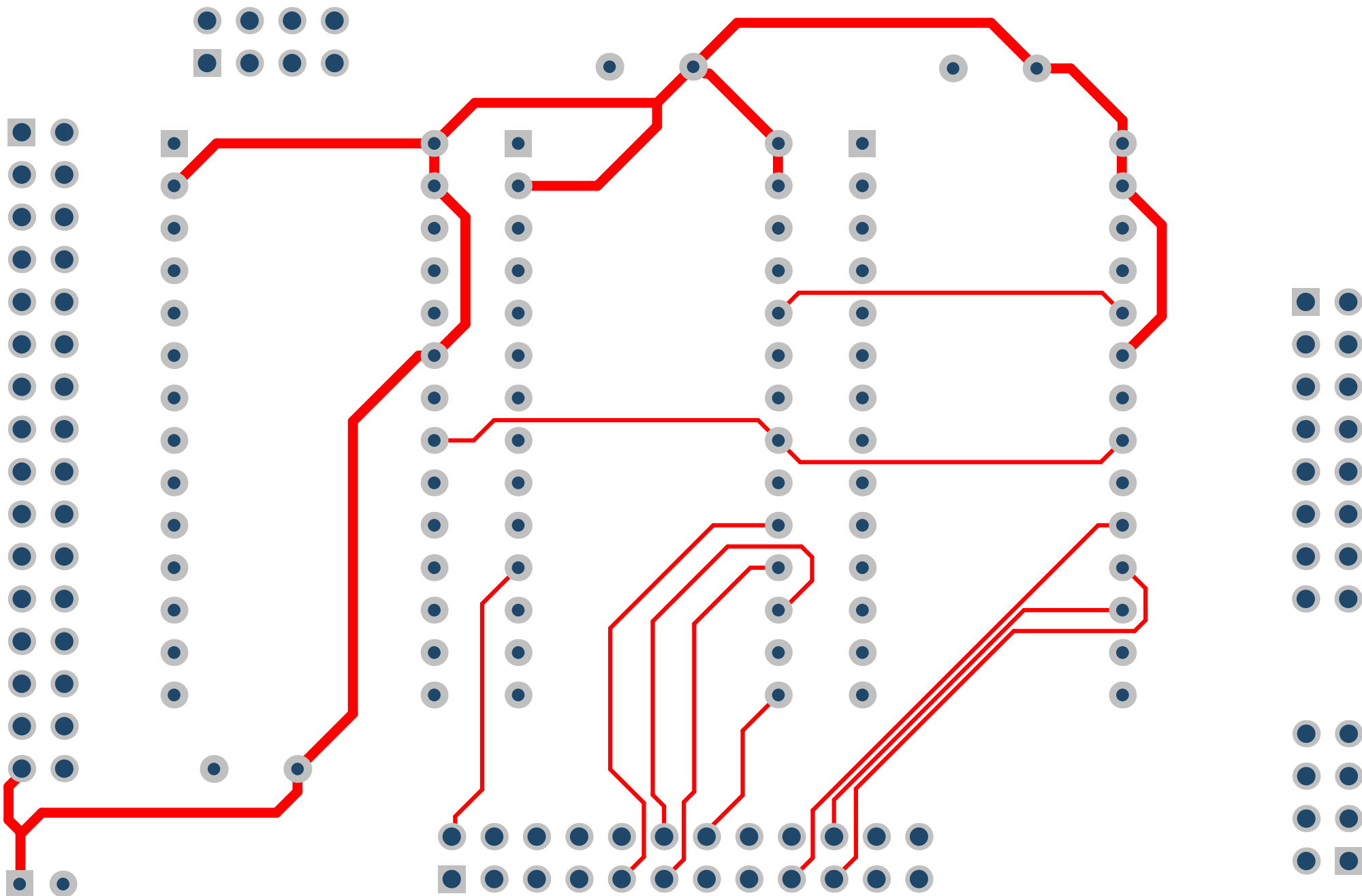
Author: Rafa Hernández

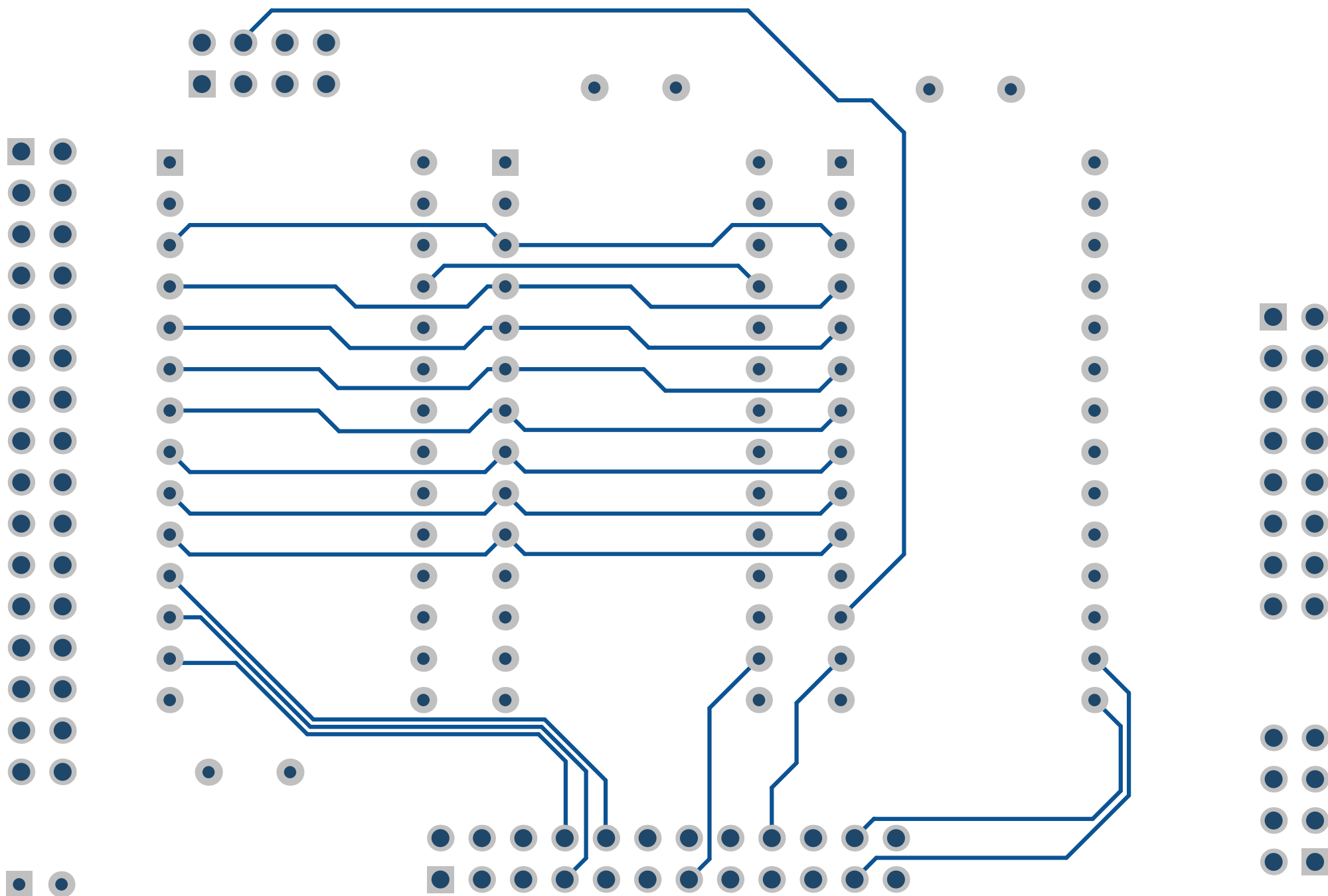














Bill of Materials

myCPU Instruction Decoder

Description	Value	Q
Electrolytic capacitor 16v/50v	10 μ F	1
Ceramic capacitor	100nF	3
EEProm 64K, 8K x 8 bits	AT28C64	3
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	16p	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	32p	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	8p	2
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	24p	1



Assembly List

myCPU Instruction Decoder

Designator	Description	Value
C1	Electrolytic capacitor 16v/50v	10 μ F
C2	Ceramic capacitor	100nF
C3	Ceramic capacitor	100nF
C4	Ceramic capacitor	100nF
MEM1	EEProm 64K, 8K x 8 bits	AT28C64
MEM2	EEProm 64K, 8K x 8 bits	AT28C64
MEM3	EEProm 64K, 8K x 8 bits	AT28C64
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	8p
P4	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	24p
P6	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical	8p