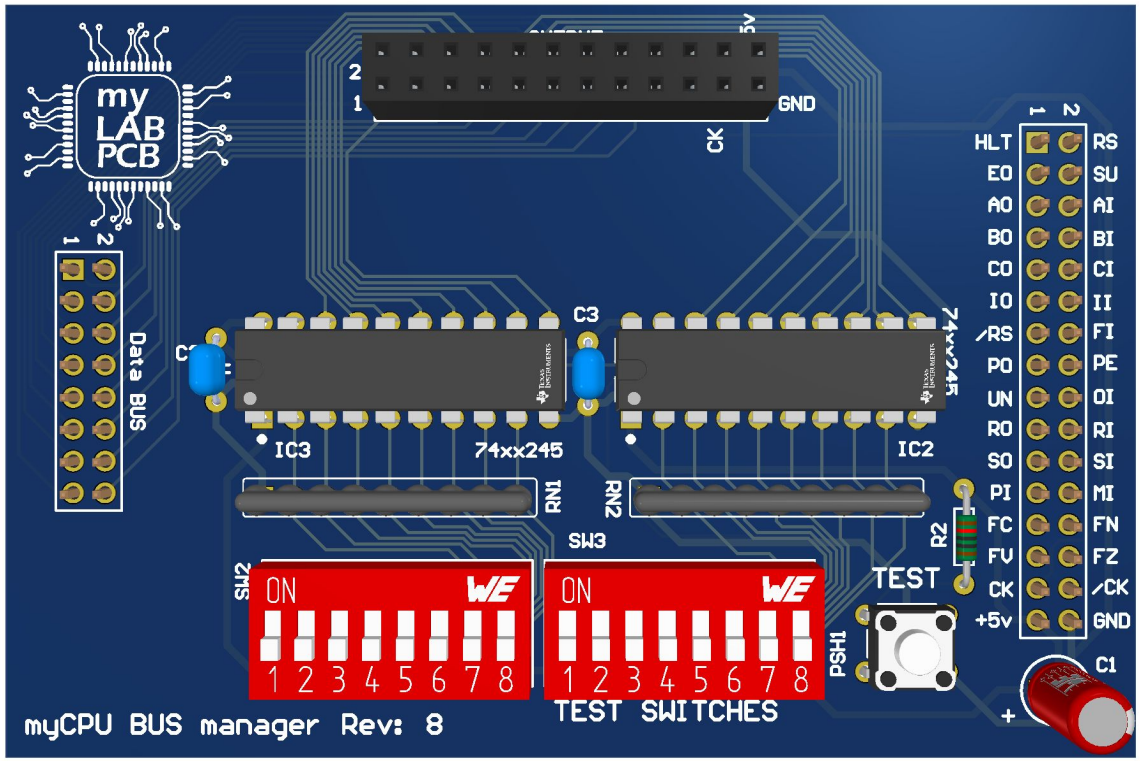
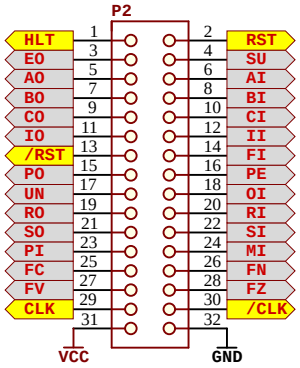
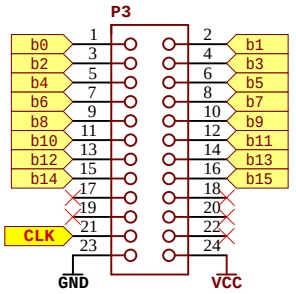

my
LAB
PCB
2
1
GND
CK
5v
1
2
Data BUS
C3
IC3
74xx245
IC2
74xx245
RN1
RN2
SW3
SW2
ON
WE
1 2 3 4 5 6 7 8
TEST
PSH1
R2
C1
+
HLT
EO
AO
BO
CO
IO
/RS
PO
UN
RO
SO
PI
FC
FV
CK
+5v
RS
SU
AI
BI
CI
II
FI
PE
OI
RI
SI
MI
FN
FZ
/CK
GND
myCPU BUS manager Rev: 8
TEST SWITCHES

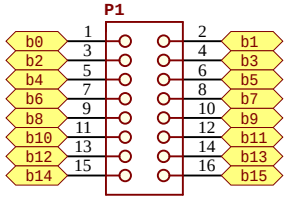
Control BUS Connector



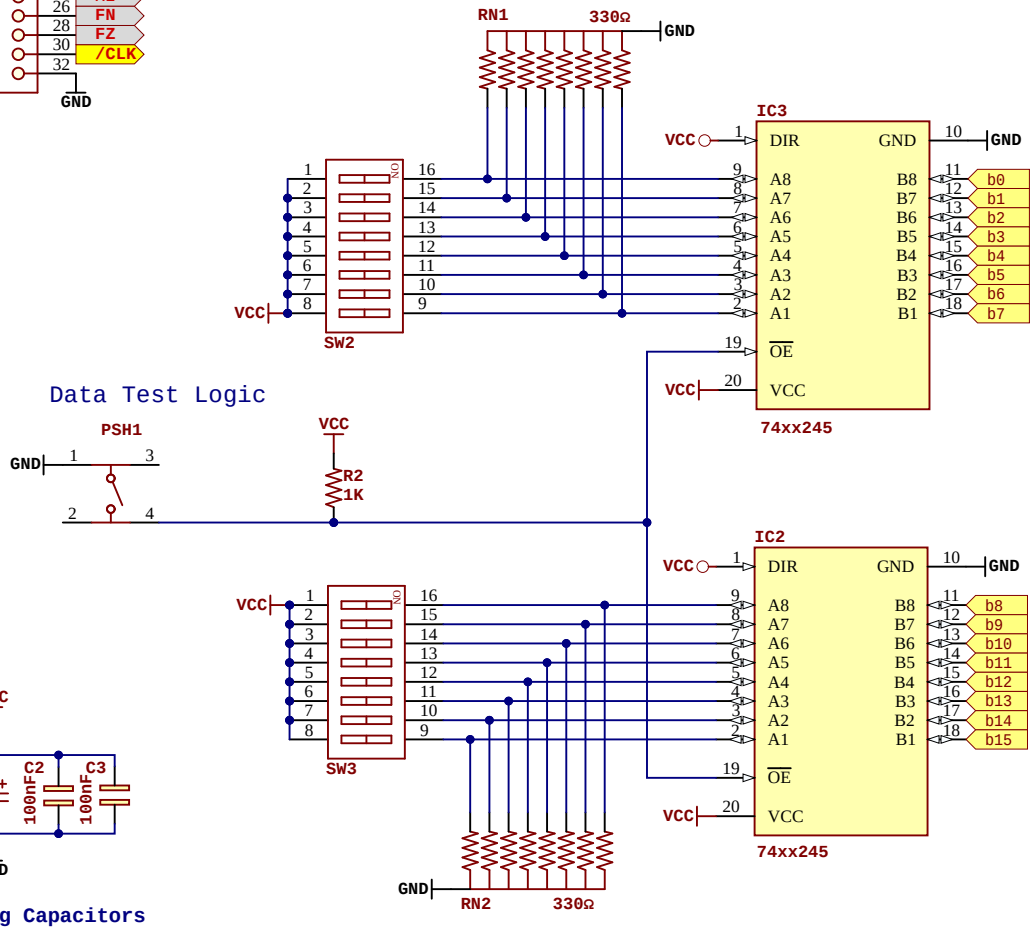
OUTPUT Connector



Data BUS Connector



Data Test Logic



Decoupling Capacitors

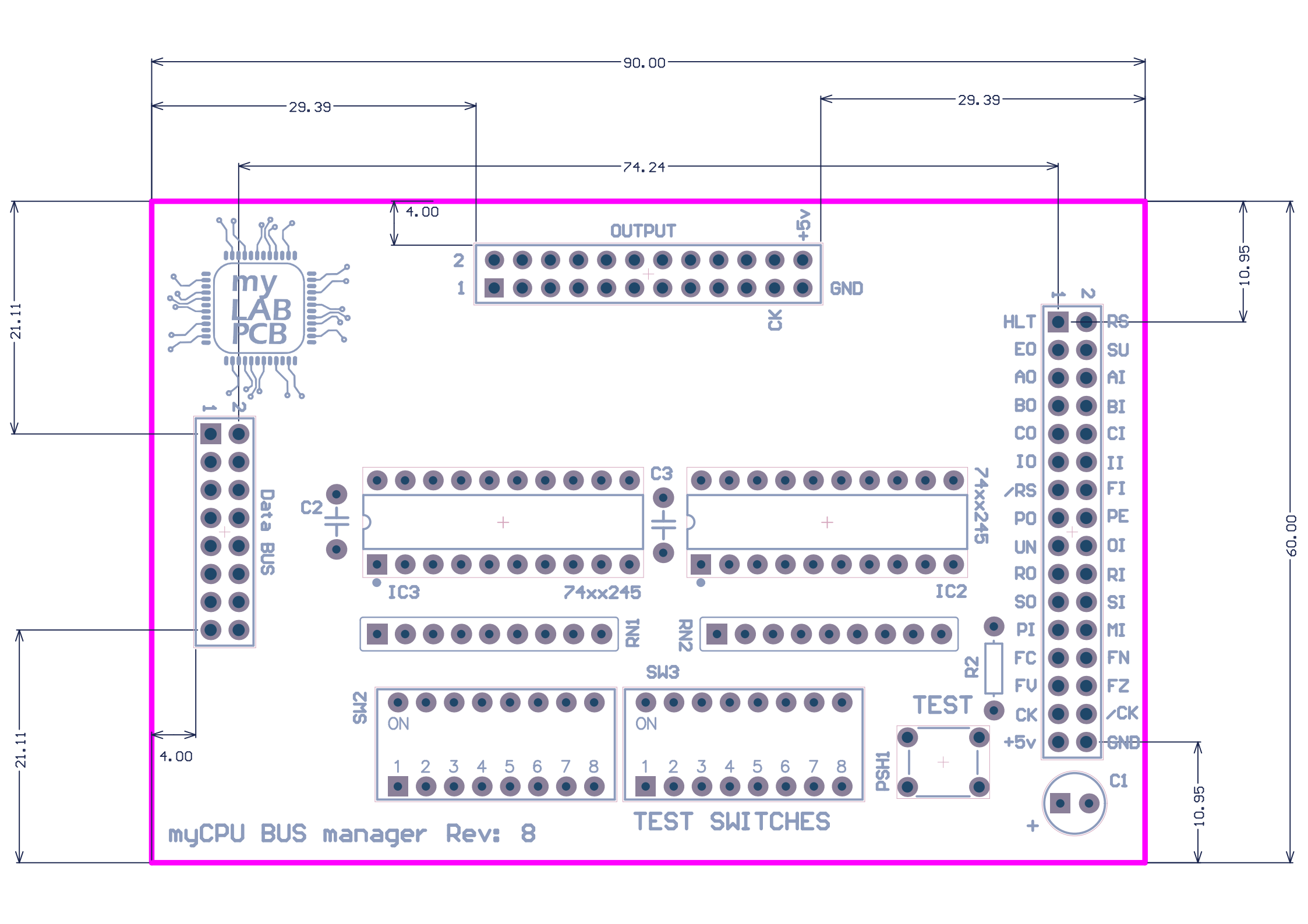
"74xx" Indicates the use LS (TTL) or HC(CMOS) ICs as your prefer for your build.

my LAB PCB

Project: myCPU BUS Manager

Revision: 8 **Date:** 02-Jan-24

Author: Rafa Hernández


90.00
29.39
29.39
74.24
4.00
OUTPUT
+5v
2
1
GND
CK
21.11
10.95
60.00
my
LAB
PCB
1
2
Data BUS
C2
C3
74xx245
IC3
74xx245
IC2
RN1
RN2
R2
SW3
SW2
ON
1 2 3 4 5 6 7 8
ON
1 2 3 4 5 6 7 8
TEST
PSH1
C1
+
4.00
21.11
10.95
HLT
EO
AO
BO
CO
IO
/RS
PO
UN
RO
SO
PI
FC
FV
CK
+5v
RS
SU
AI
BI
CI
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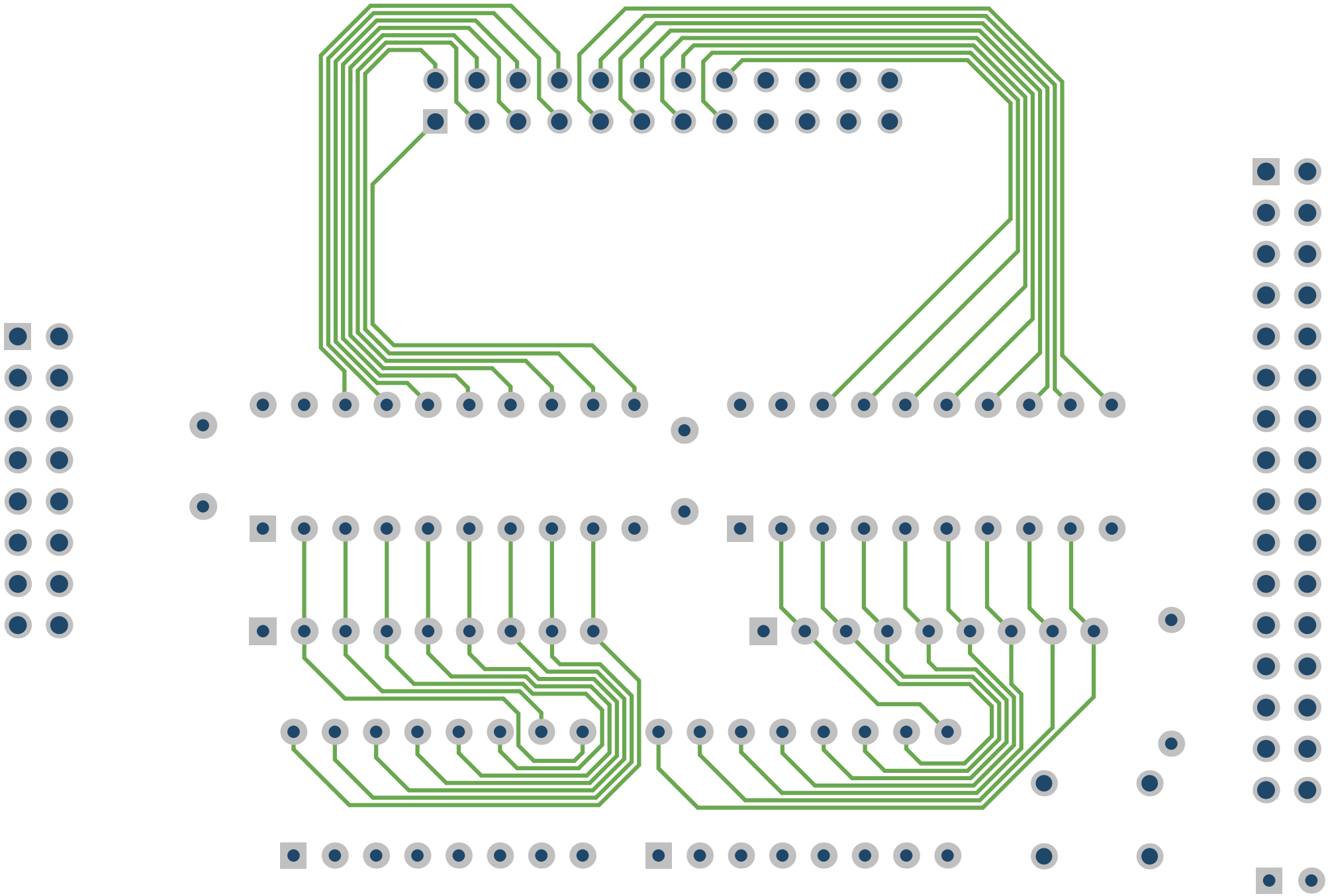
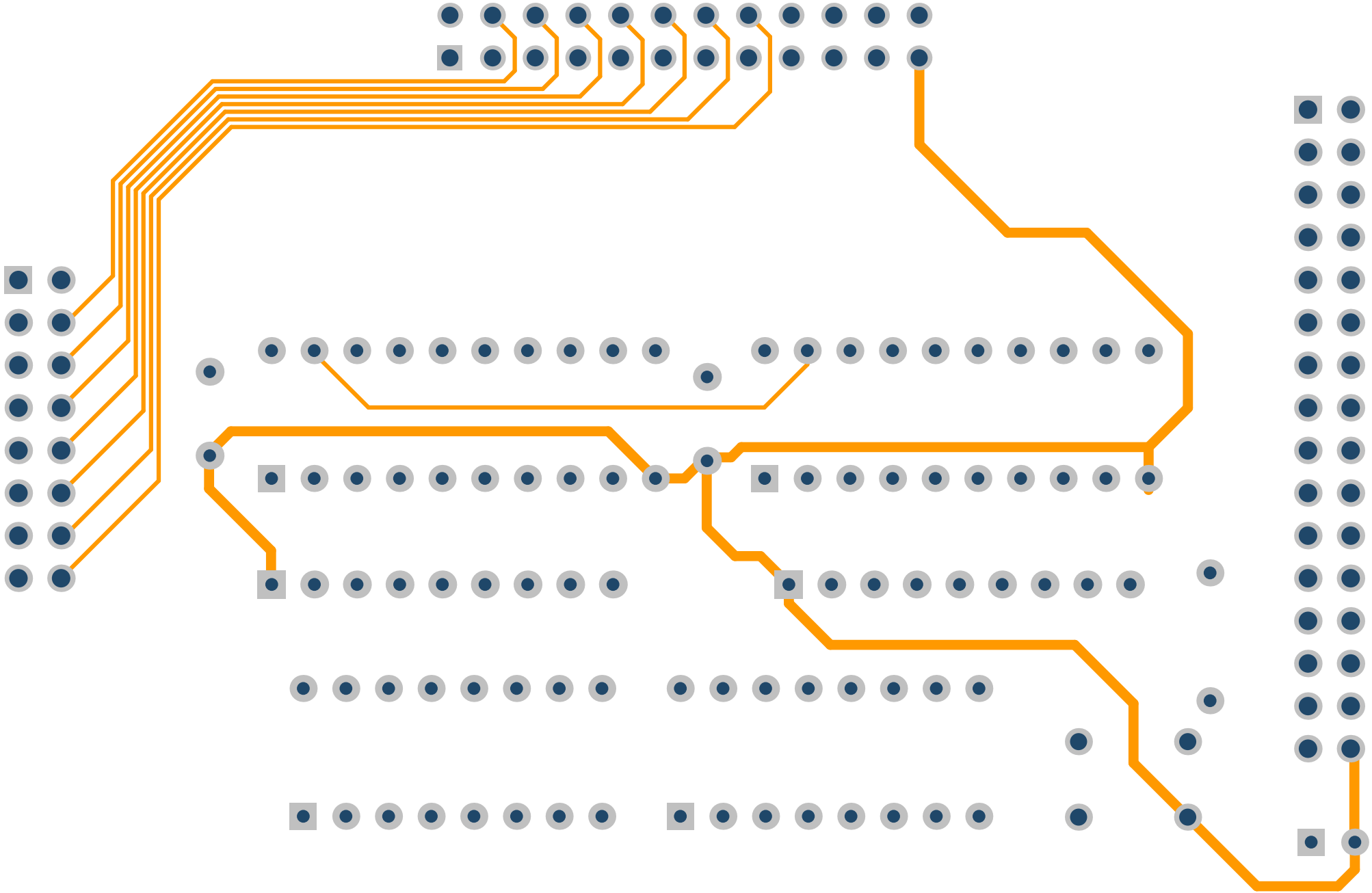
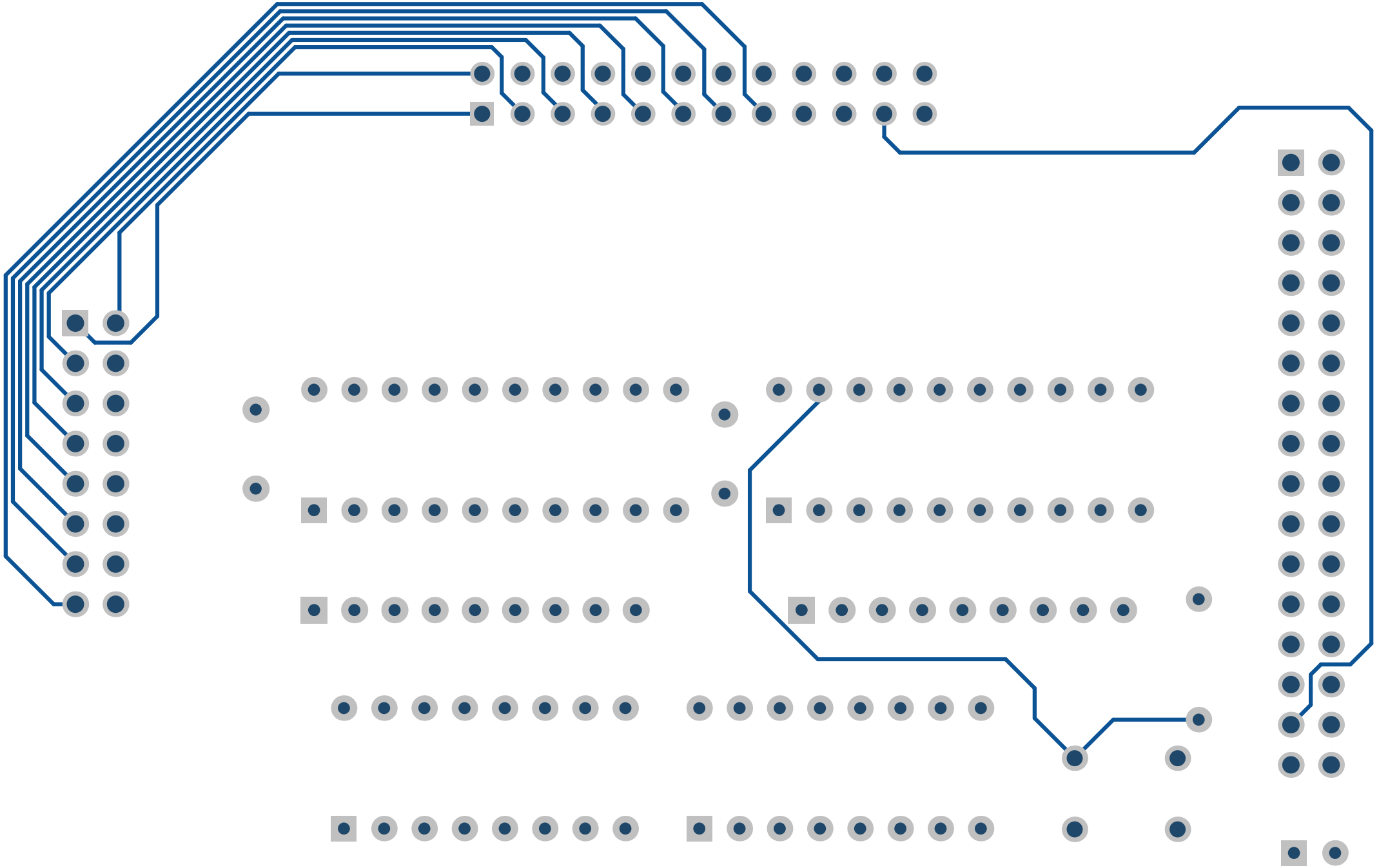
FI
PE
OI
RI
SI
MI
FN
FZ
/CK
GND
myCPU BUS manager Rev: 8
TEST SWITCHES







Bill of Materials

myCPU BUS Manager

Description	Value	Q
Electrolytic capacitor 16v/50v	10µF	1
Ceramic or tantalum capacitor	100nF	2
Non inverting bus transceiver	74xx245	2
Pin Header, pitch 2.54mm, Dual Row, Vertical	16p	1
Pin Header, pitch 2.54mm, Dual Row, Vertical	32p	1
Socket Header, pitch 2.54mm, Dual Row, Vertical	24p	1
Tactile button 6 mm		1
Resistor Axial	1K	1
Resistor array 8 elements,9 pins	330Ω	2
DIP switch 8 positions		2

Assembly List

myCPU BUS Manager

Designator	Description	Value
C1	Electrolytic capacitor 16v/50v	10µF
C2	Ceramic or tantalum capacitor	100nF
C3	Ceramic or tantalum capacitor	100nF
IC2	Non inverting bus transceiver	74xx245
IC3	Non inverting bus transceiver	74xx245
P1	Pin Header, pitch 2.54mm, Dual Row, Vertical	16p
P2	Pin Header, pitch 2.54mm, Dual Row, Vertical	32p
P3	Socket Header, pitch 2.54mm, Dual Row, Vertical	24p
PSH1	Tactile button 6 mm	
R2	Resistor Axial	1K
RN1	Resistor array 8 elements,9 pins	330Ω
RN2	Resistor array 8 elements,9 pins	330Ω
SW2	DIP switch 8 positions	
SW3	DIP switch 8 positions	