Basic Usage

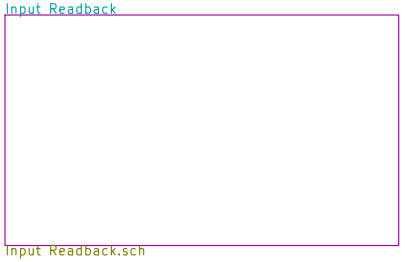
Basic Usage 1

Basic Usage 1.sch

Basic Usage 2

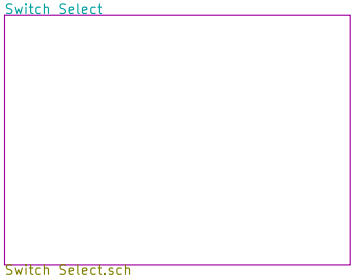
Basic Usage 2.sch

Input Readback



Input Readback.sch

Switch Select

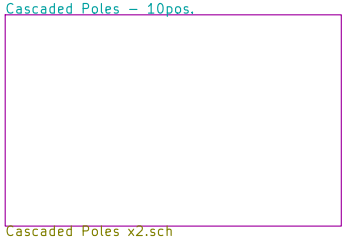


Switch Select.sch

Multiplexing

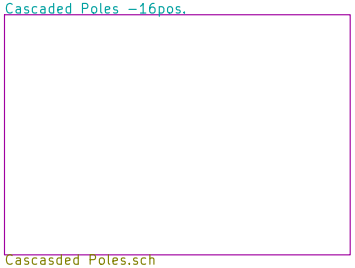
Multiplexing.sch

Cascaded Poles – 10pos.

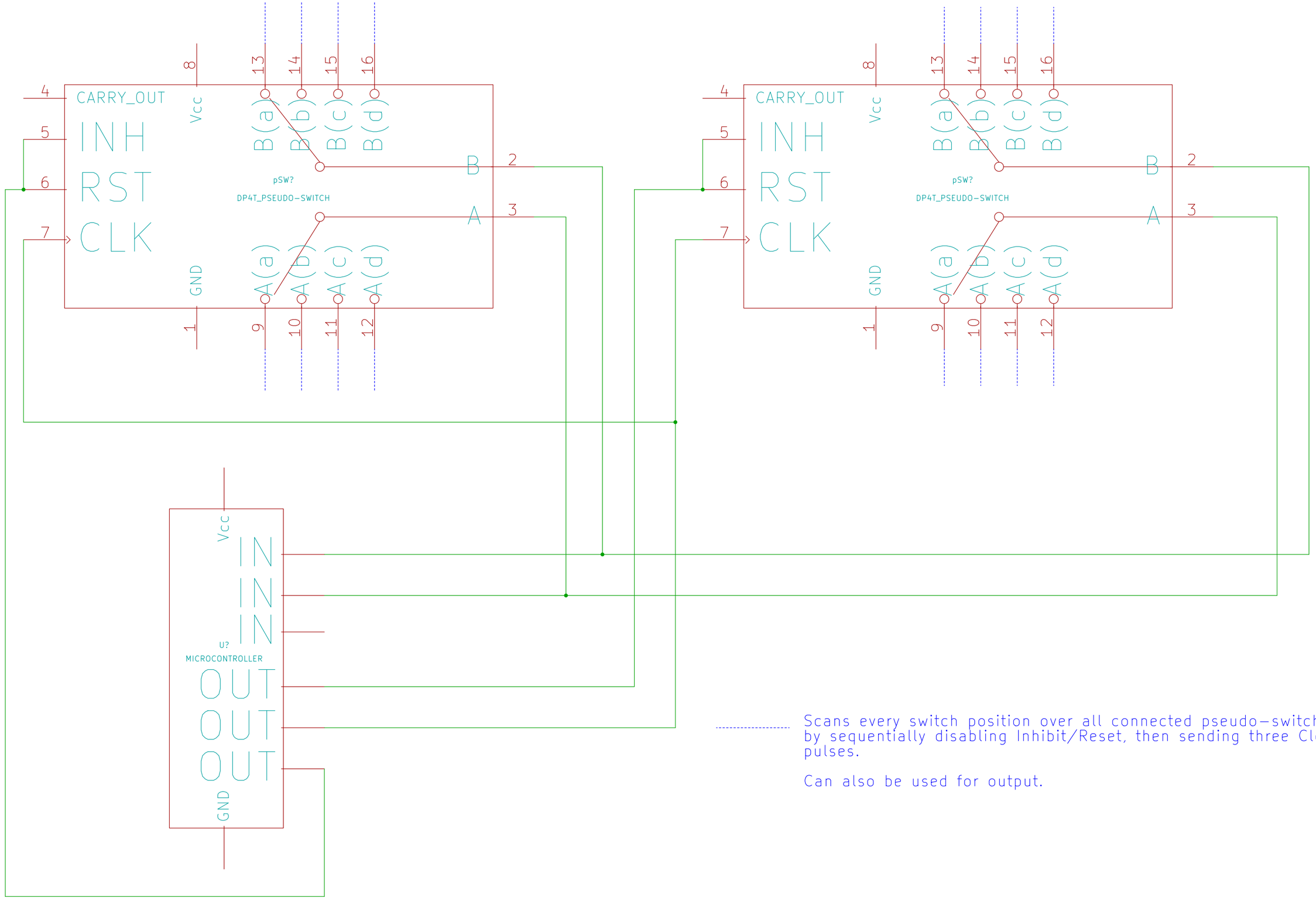


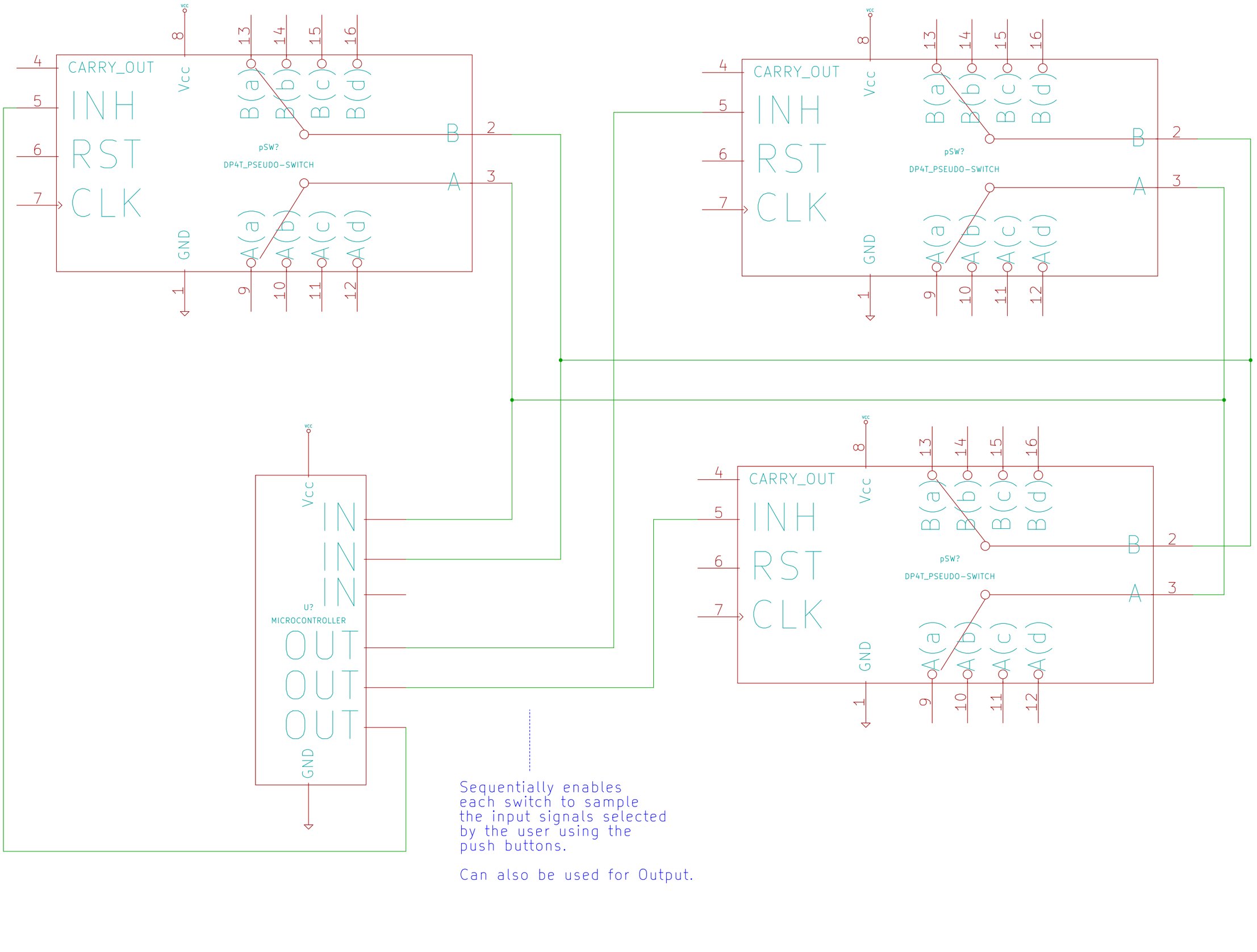
Cascaded Poles x2.sch

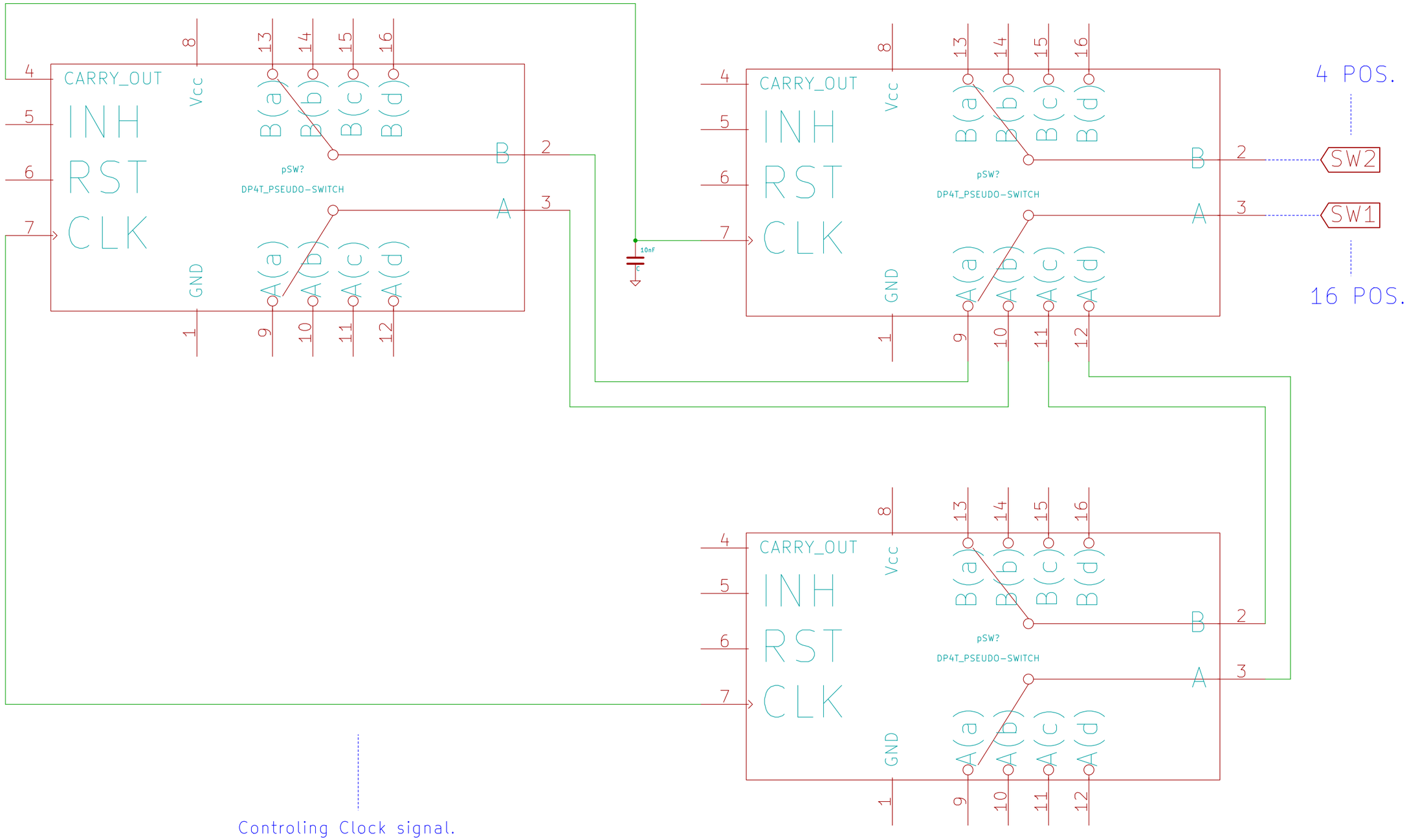
Cascaded Poles –16pos.

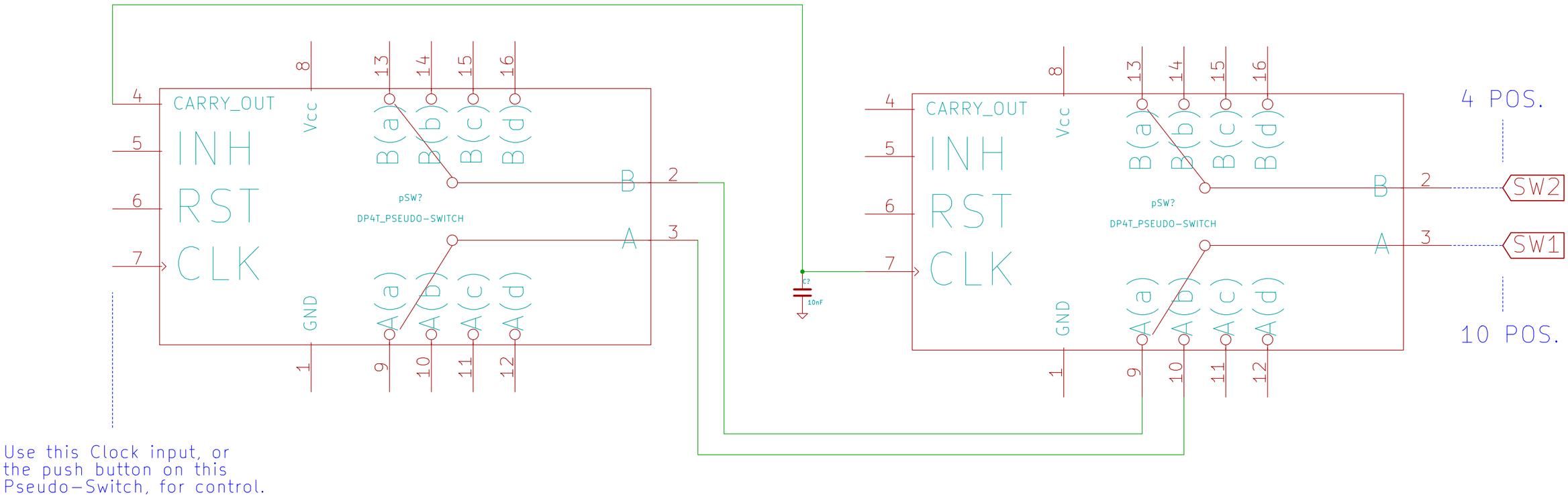


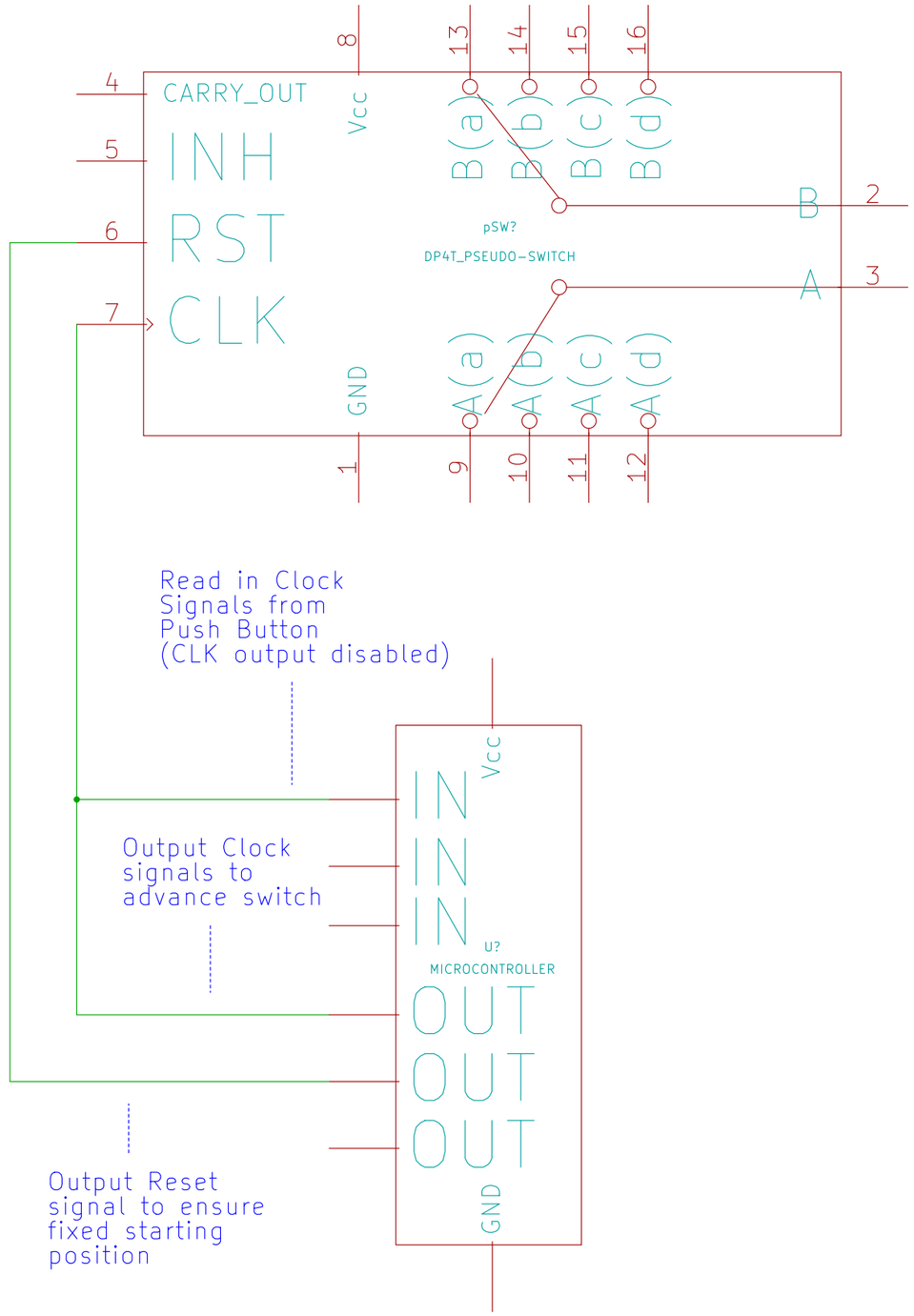
Cascasded Poles.sch


CARRY_OUT
INH
RST
CLK
Vcc
GND
B(a)
B(b)
B(c)
B(d)
A(a)
A(b)
A(c)
A(d)
B
A
pSW?
DP4T_PSEUDO-SWITCH
U?
MICROCONTROLLER
IN
IN
IN
OUT
OUT
OUT
Vcc
GND
Scans every switch position over all connected pseudo-switches by sequentially disabling Inhibit/Reset, then sending three Clock pulses.
Can also be used for output.


vcc
8
13
14
15
16
4
CARRY_OUT
Vcc
B(a)
B(b)
B(c)
B(d)
5
INH
RST
6
CLK
7
B
2
pSW?
DP4T_PSEUDO-SWITCH
A
3
GND
A(a)
A(b)
A(c)
A(d)
1
9
10
11
12
U?
MICROCONTROLLER
IN
IN
IN
OUT
OUT
OUT
Sequentially enables
each switch to sample
the input signals selected
by the user using the
push buttons.
Can also be used for Output.


CARRY_OUT
INH
RST
CLK
Vcc
GND
B(a)
B(b)
B(c)
B(d)
A(a)
A(b)
A(c)
A(d)
B
A
pSW?
DP4T_PSEUDO-SWITCH
10nF
C
4 POS.
SW2
SW1
16 POS.
Controling Clock signal.
Use push button on either connected
Pseudo-Switch for manual control.


CARRY_OUT
INH
RST
CLK
Vcc
GND
B(a)
B(b)
B(c)
B(d)
A(a)
A(b)
A(c)
A(d)
B
A
pSW?
DP4T_PSEUDO-SWITCH
C?
10nF
4 POS.
10 POS.
SW2
SW1
Use this Clock input, or
the push button on this
Pseudo-Switch, for control.


4
CARRY_OUT
5
INH
6
RST
7
CLK
8
Vcc
13
14
15
16
B(a)
B(b)
B(c)
B(d)
B
2
pSW?
DP4T_PSEUDO-SWITCH
A
3
GND
1
9
10
11
12
A(a)
A(B)
A(c)
A(d)
Read in Clock
Signals from
Push Button
(CLK output disabled)
Vcc
IN
IN
IN
U?
MICROCONTROLLER
OUT
OUT
OUT
GND
Output Clock
signals to
advance switch
Output Reset
signal to ensure
fixed starting
position

Max. 5VAC in with 5V Vcc
Max. +5V, −4V in with 3V Vcc
<120 – 500 ohms ON resistance
20mA max.

Carry Out allows multiple Pseudo−Switches to be chained for more switch positions.

3V to 5V DC

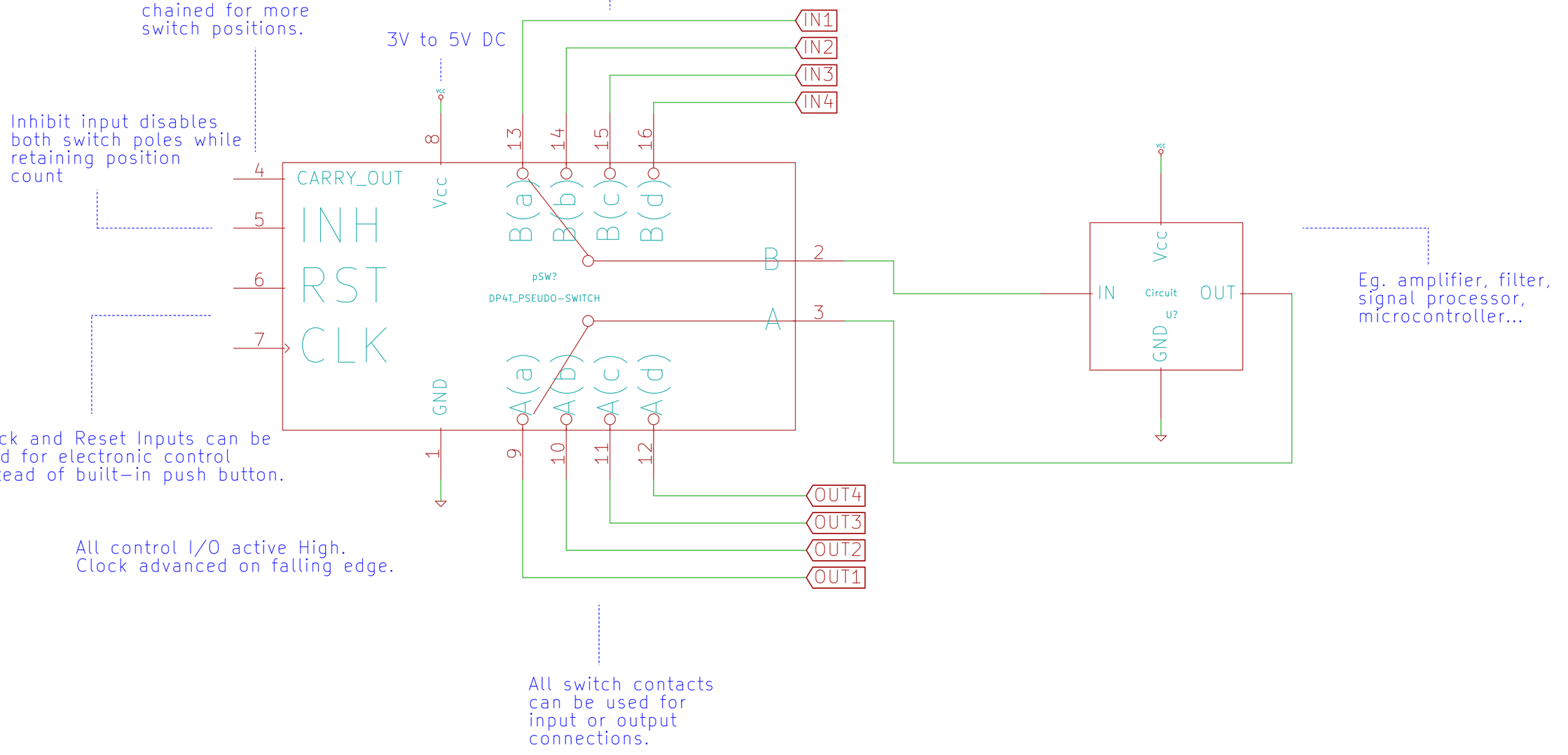
Inhibit input disables both switch poles while retaining position count

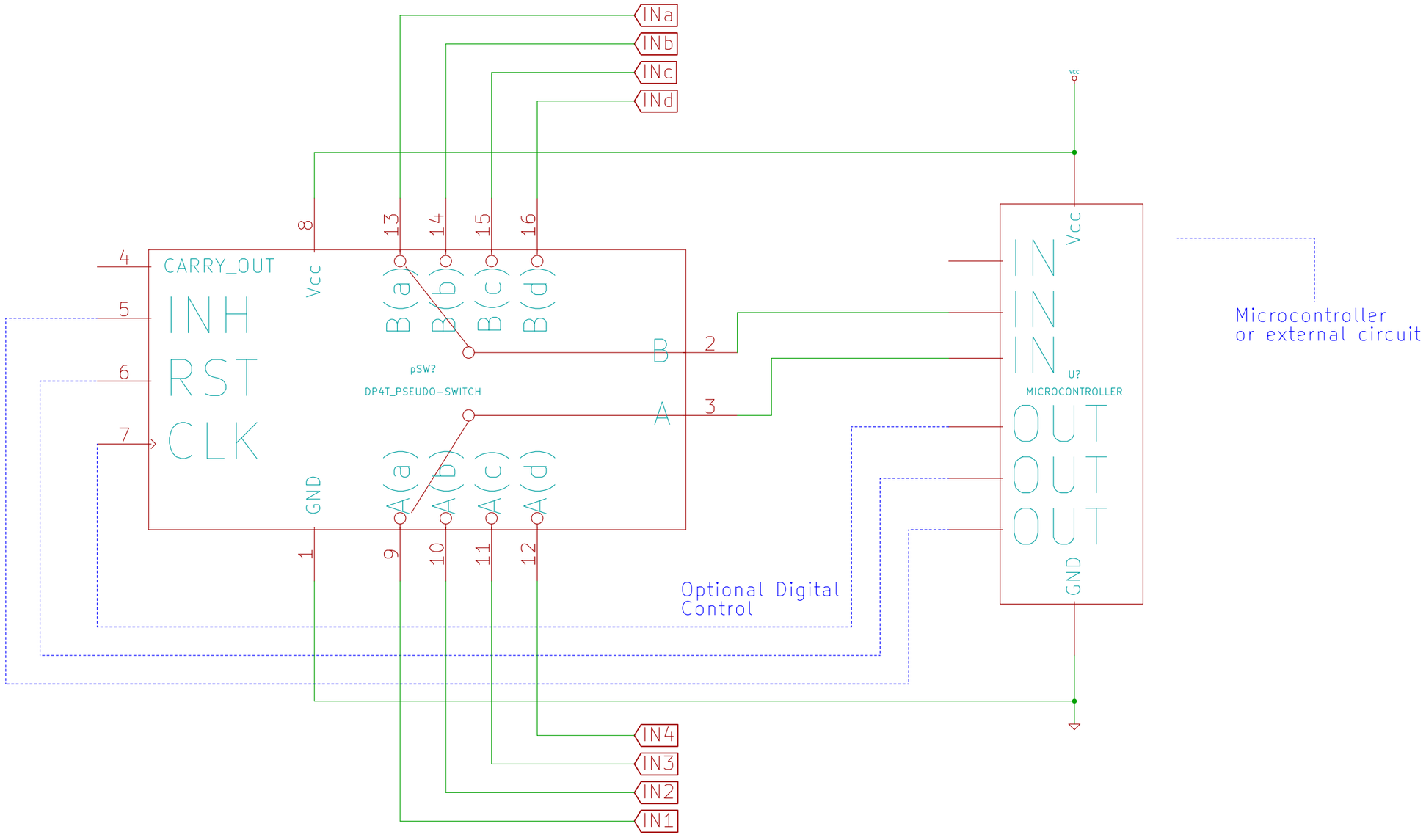
Clock and Reset Inputs can be used for electronic control instead of built−in push button.

All control I/O active High.
Clock advanced on falling edge.

All switch contacts can be used for input or output connections.

Eg. amplifier, filter, signal processor, microcontroller...




INa
INb
INc
INd
8
13
14
15
16
4
CARRY_OUT
5
INH
6
RST
7
CLK
Vcc
B(a)
B(b)
B(c)
B(d)
B
2
pSW?
DP4T_PSEUDO-SWITCH
A
3
GND
A(a)
A(b)
A(c)
A(d)
1
9
10
11
12
Optional Digital
Control
IN4
IN3
IN2
IN1
vcc
Vcc
IN
IN
IN
U?
MICROCONTROLLER
OUT
OUT
GND
Microcontroller
or external circuit