

```
#
# WWU FPGA2 pin assignments
# L.Aamodt 2016-10-04
#
#
mclk LOC = "T9" 50 Mhz clock input

sma0 LOC = "A7" SMA coax connector
sma1 LOC = "A9" SMA coax connector

sw0 LOC = "R16" Toggle switches
sw1 LOC = "R15"
sw2 LOC = "P16"
sw3 LOC = "P15"
sw4 LOC = "P14"
sw5 LOC = "N16"
sw6 LOC = "M16"
sw7 LOC = "L15"

sw8 LOC = "L14" Push buttons
sw9 LOC = "K13"
sw10 LOC = "K16"
sw11 LOC = "K12"
sw12 LOC = "K15"
sw13 LOC = "J16"
sw14 LOC = "K14"
sw15 LOC = "J13"
sw16 LOC = "H15"

led0 LOC = "H14" LEDs
led1 LOC = "H12"
led2 LOC = "H11"
led3 LOC = "G16"
led4 LOC = "G15"
led5 LOC = "G14"
led6 LOC = "G13"
led7 LOC = "F15"
led8 LOC = "F14"
led9 LOC = "F13"
led10 LOC = "F12"
led11 LOC = "C15"
led12 LOC = "R1"
led13 LOC = "R2"
led14 LOC = "P1"
led15 LOC = "P2"
led16 LOC = "N1"
```

anode0 LOC = "D15" 7-segment display anodes
anode1 LOC = "D14" anodes select a digit to turn on
anode2 LOC = "C16"
anode3 LOC = "J2"
anode4 LOC = "J3"

extin0 LOC = "M1" Inputs from external circuits
extin1 LOC = "L5" 0 to 3.3 volt range
extin2 LOC = "K1"
extin3 LOC = "K2"
extin4 LOC = "K3"
extin5 LOC = "K5"
extin6 LOC = "J1"
extin7 LOC = "J5"

extout0 LOC = "H3" Outputs to external circuits
extout1 LOC = "H4" 0 volts = logic 0
extout2 LOC = "H5" 3.3 volts = logic 1
extout3 LOC = "H6"
extout4 LOC = "G2"
extout5 LOC = "G3"
extout6 LOC = "G4"
extout7 LOC = "G5"
extout8 LOC = "E1"

cath7 LOC = "J4" 7-segment display cathodes.
cath6 LOC = "E3" cathodes select a segment to turn on
cath5 LOC = "E4"
cath4 LOC = "D1"
cath3 LOC = "C1"
cath2 LOC = "C2"
cath1 LOC = "B1"
cath0 LOC = "B2"