

12345678

bus

power

buffers

fpanel

File: bus.kicad\_sch  
6809CPU

File: power.kicad\_sch  
GALS

File: buffers.kicad\_sch  
bus sharing

File: fpanel.kicad\_sch  
mapper

File: 6809CPU.kicad\_sch

File: GALS.kicad\_sch

File: bussharing.kicad\_sch

File: mapper.kicad\_sch

Sheet: /  
File: processor.6809.kicad\_sch

Title: **Duodyne 6809 CPU board**

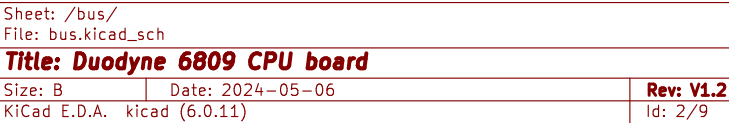
Size: B

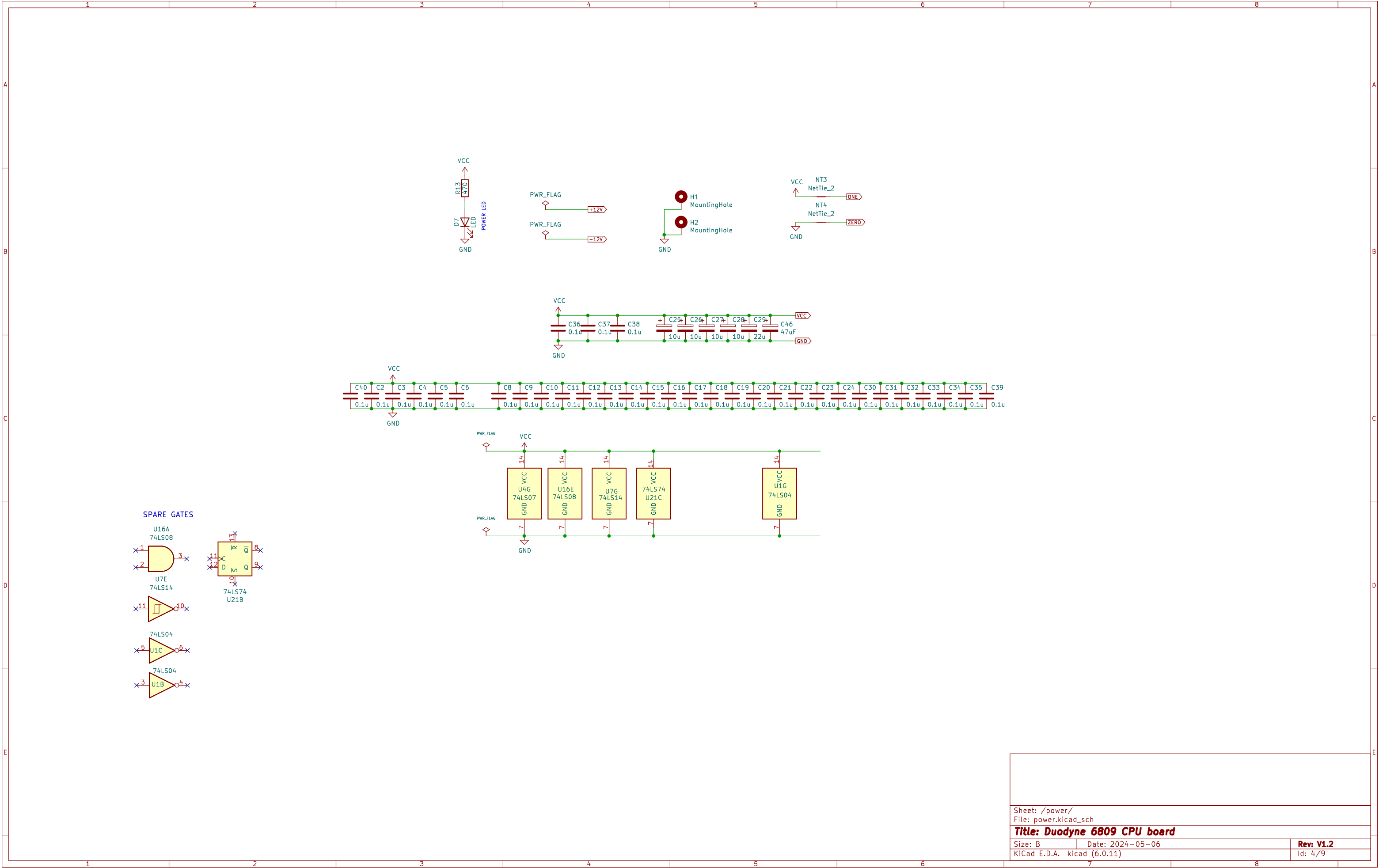
Date: 2024-05-06

Rev: **V1.2**

KiCad E.D.A.   kicad (6.0.11)

Id: 1/9

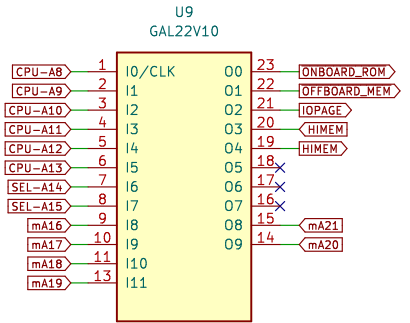




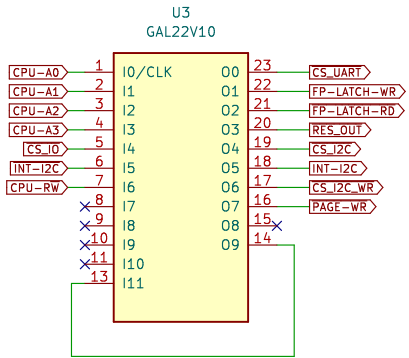
IO Address Port \$50-\$5F

\$50      PAGER BANK 0(WR)  
\$51      PAGER BANK 1(WR)  
\$52      PAGER BANK 2(WR)  
\$53      PAGER BANK 3(WR)  
\$54      Front Panel (RW)  
\$55      RESET SYSTEM  
\$56-\$57 I2C(RW)  
\$58-\$5F UART (RW)

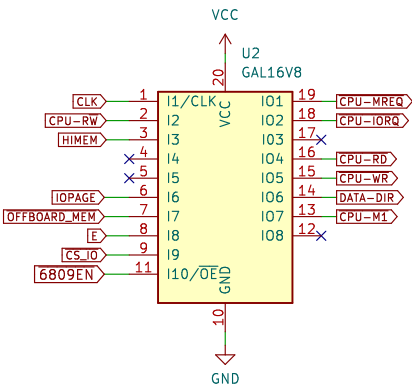
ADDRESS DECODER



IO DECODER



BUS SIGNALS



Sheet: /GALS/  
File: GALS.kicad\_sch

**Title: Duodyne 6809 CPU board**

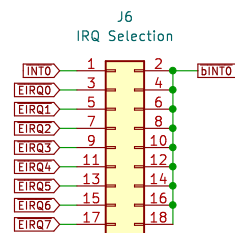
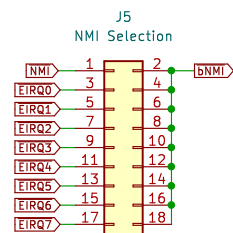
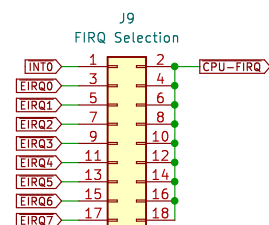
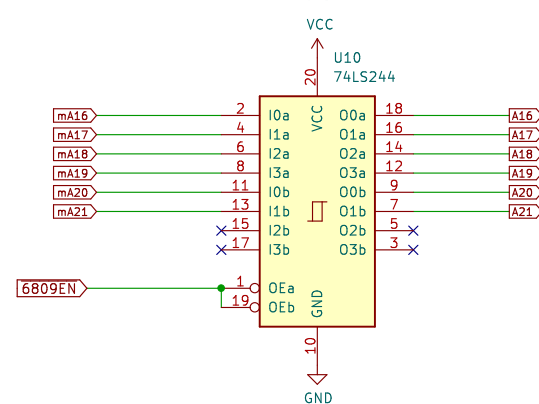
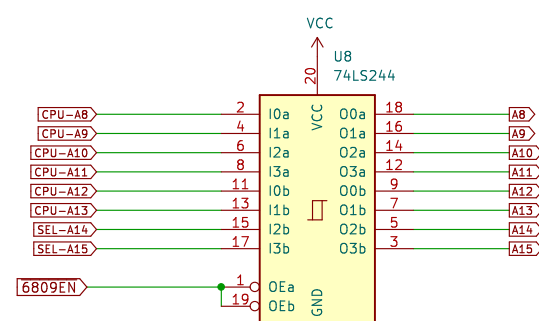
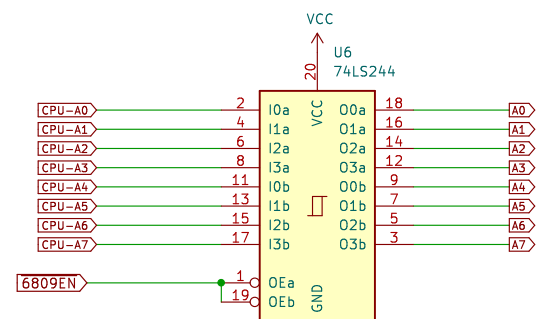
Size: B

Date: 2024-05-06

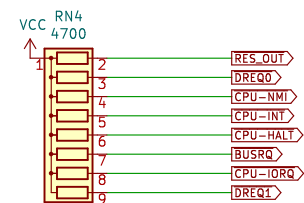
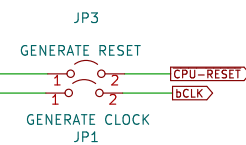
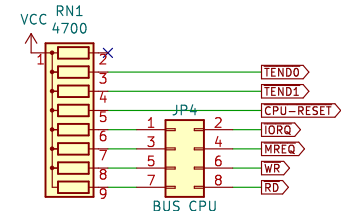
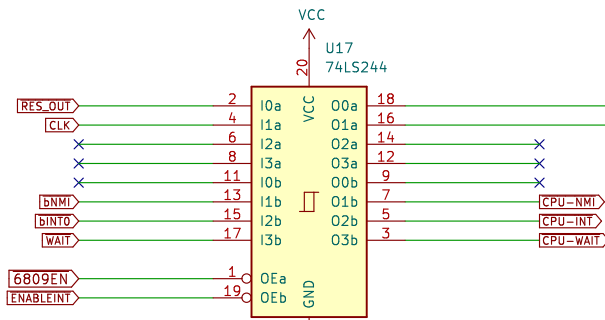
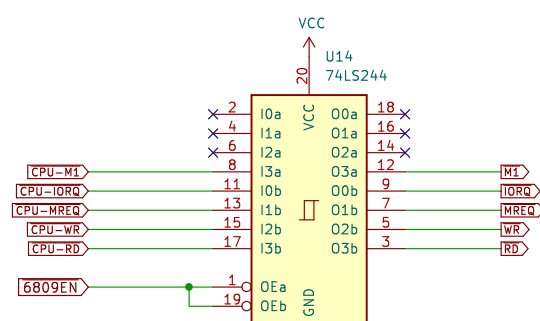
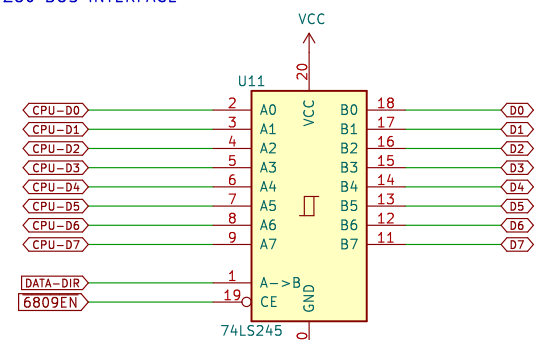
Rev: V1.2

KiCad E.D.A. kicad (6.0.11)

Id: 5/9



## Z80 BUS INTERFACE





**J11 NOTE:**

PINS 5, 7, 9, 11, 13, 15, 17, 19 ARE FOR LED STATUS FOR ROWMWB FRONT PANEL INDICATOR

PINS 6, 8, 10, 12, 14, 16, 18, 20 ARE FOR SWITCH INPUTS FOR ROWMWB FRONT PANEL

PINS 21, 23 ARE FOR I2C CONNECTION (SDA & SCL)

PINS 25, 27, 29, 31, 33, AND 35 ARE FOR TTL SERIAL CONNECTOR TO UART

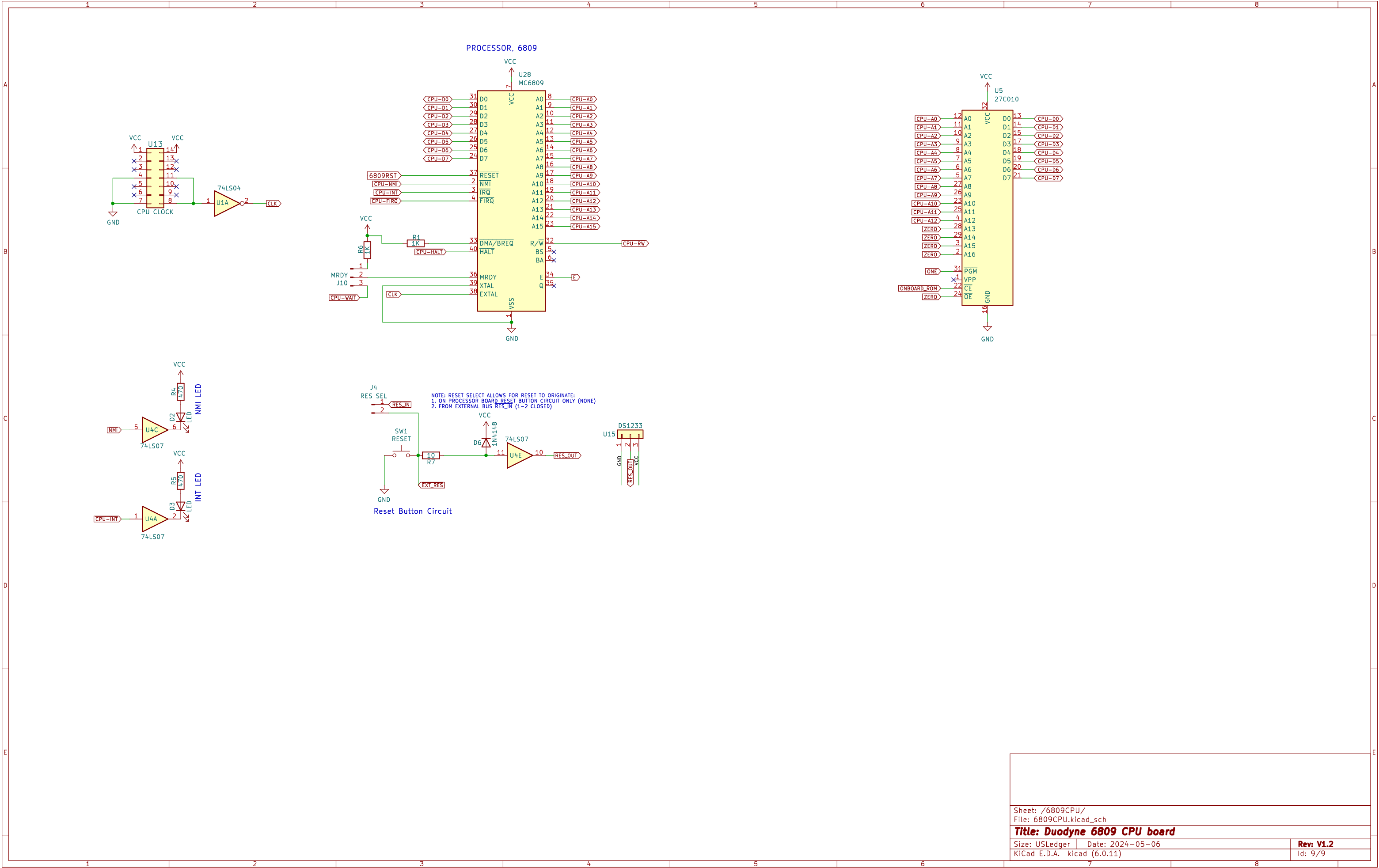
PINS 29, 37 ARE FOR SERIAL VCC POWER ENABLE

PINS 22, 24 ARE FOR EXTERNAL RESET SWITCH

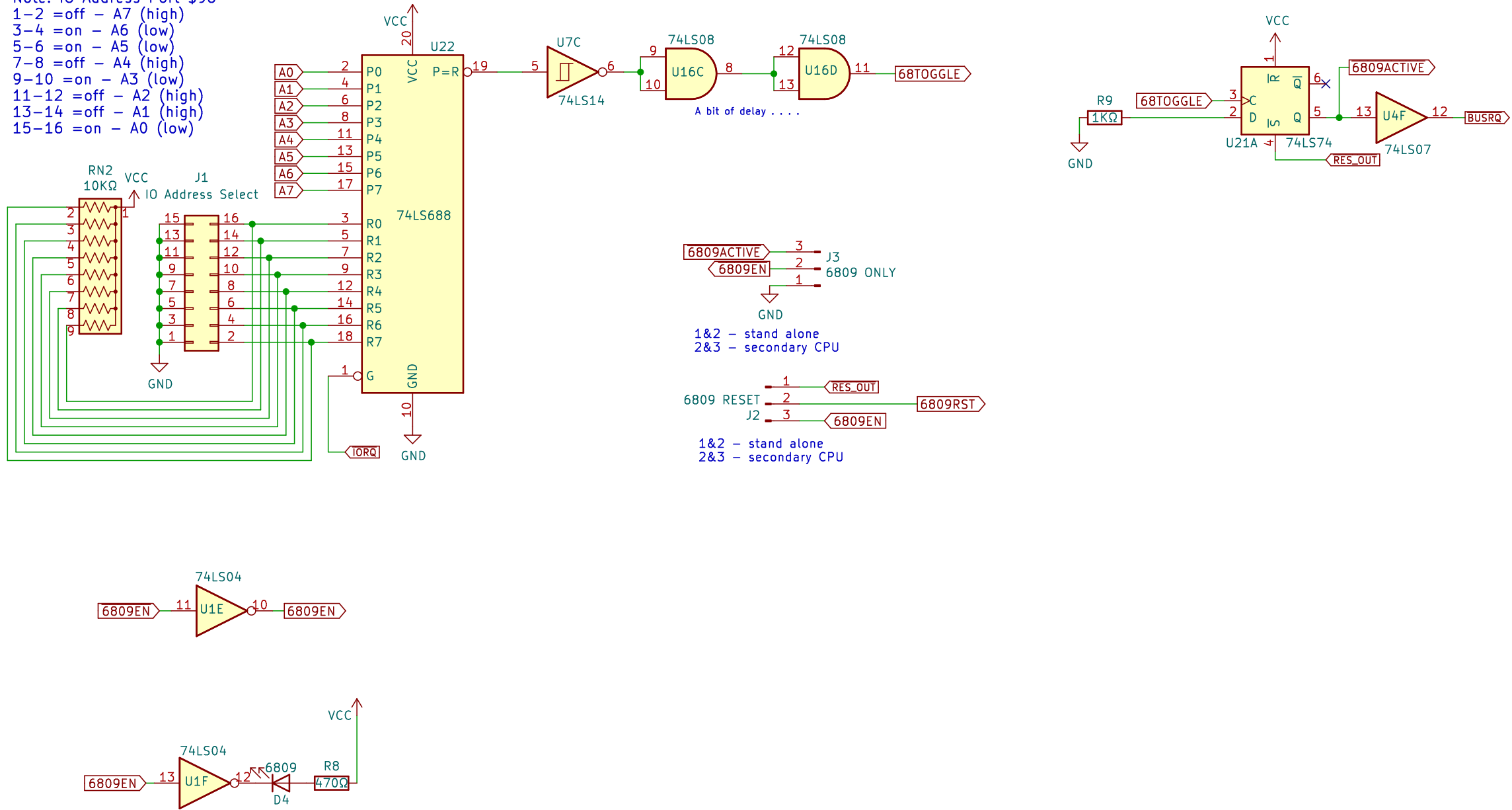
PINS 26, 28 ARE FOR IM2 CIRCUIT ENABLE

PINS 30, 32 ARE FOR INTERRUPT 0 ENABLE

PINS 34, 36 ARE FOR WAIT STATE CIRCUIT ENABLE



Note: IO Address Port \$96  
1-2 =off - A7 (high)  
3-4 =on - A6 (low)  
5-6 =on - A5 (low)  
7-8 =off - A4 (high)  
9-10 =on - A3 (low)  
11-12 =off - A2 (high)  
13-14 =off - A1 (high)  
15-16 =on - A0 (low)



Sheet: /bus sharing/  
File: bussharing.kicad\_sch

**Title: Duodyne 6809 CPU board**

Size: A4 Date: 2024-05-06

KiCad E.D.A. kicad (6.0.11)

**Rev: V1.2**

Id: 9/9



