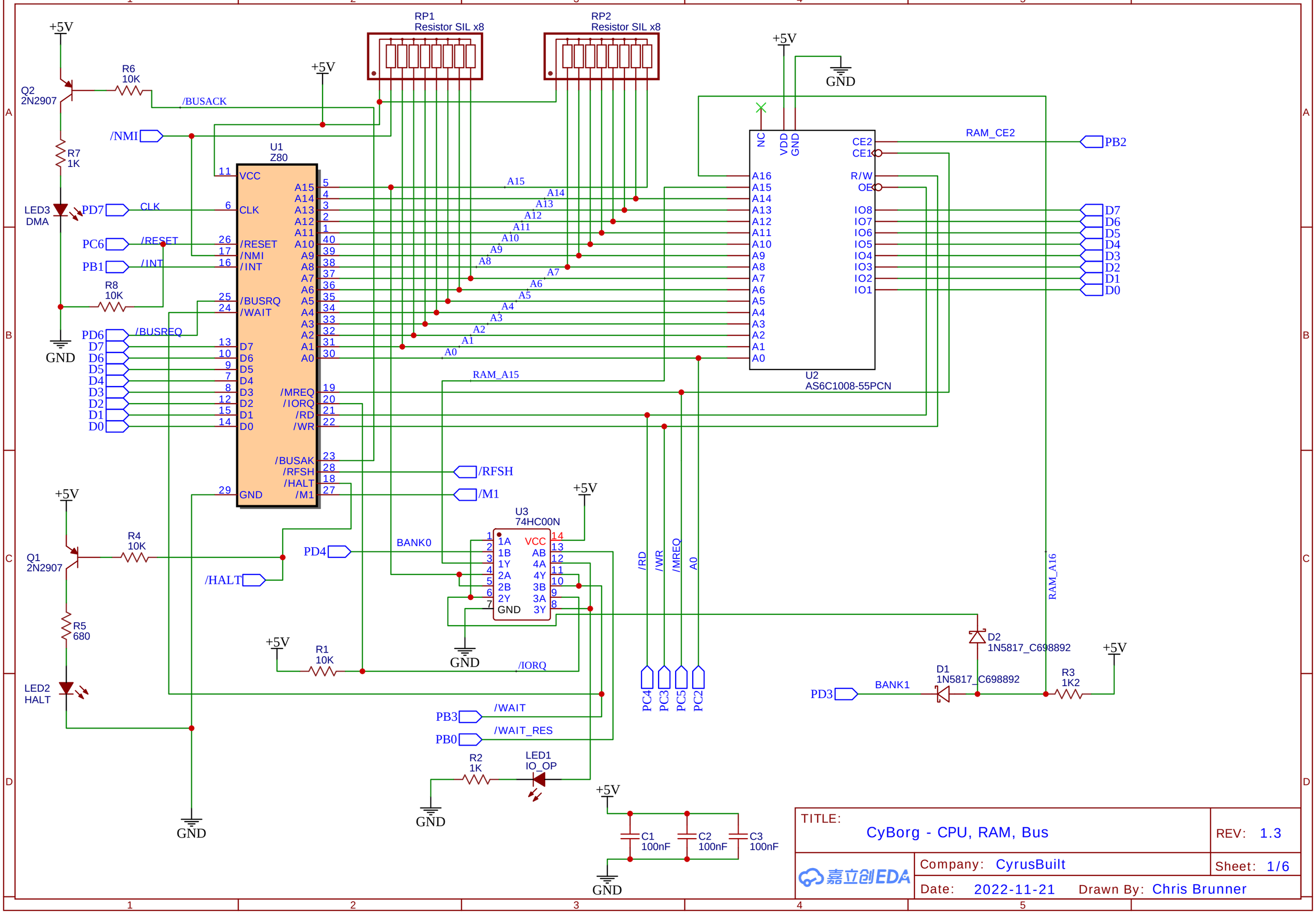
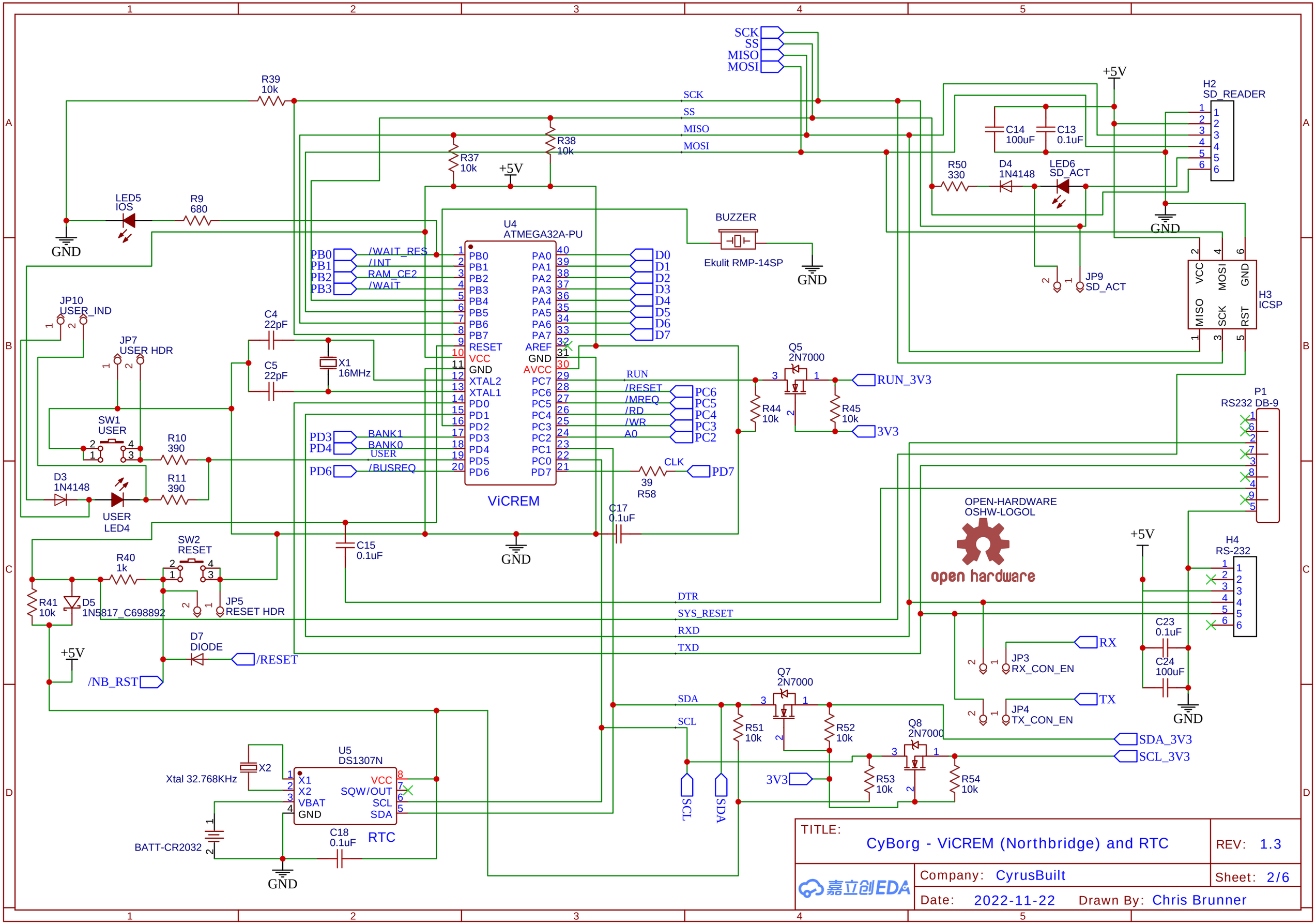
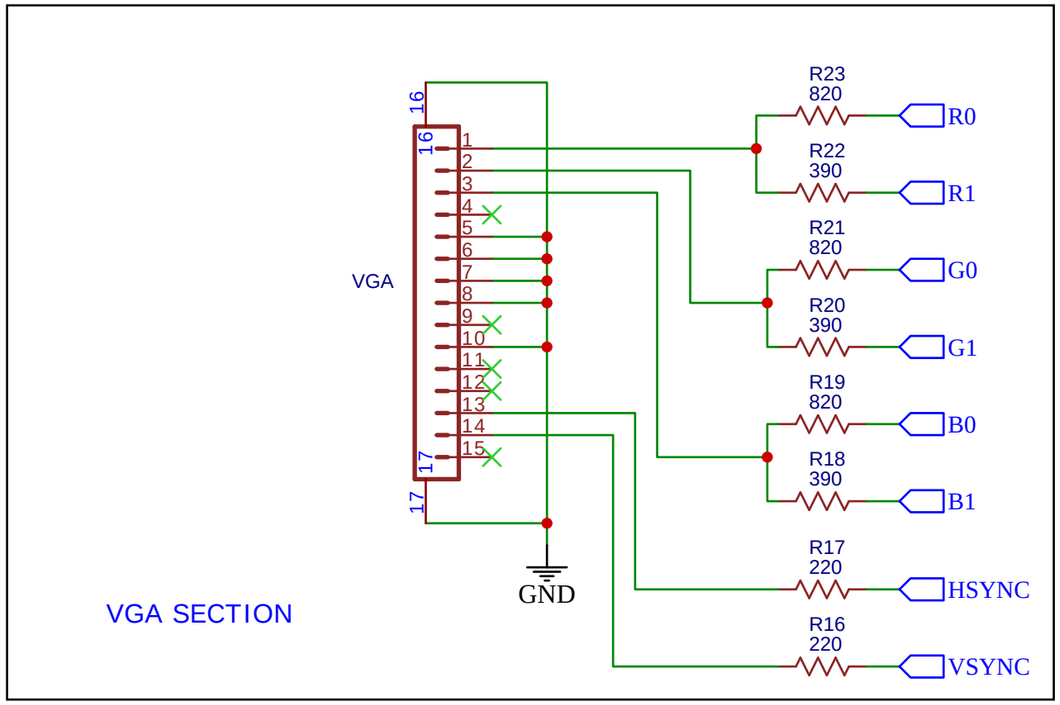
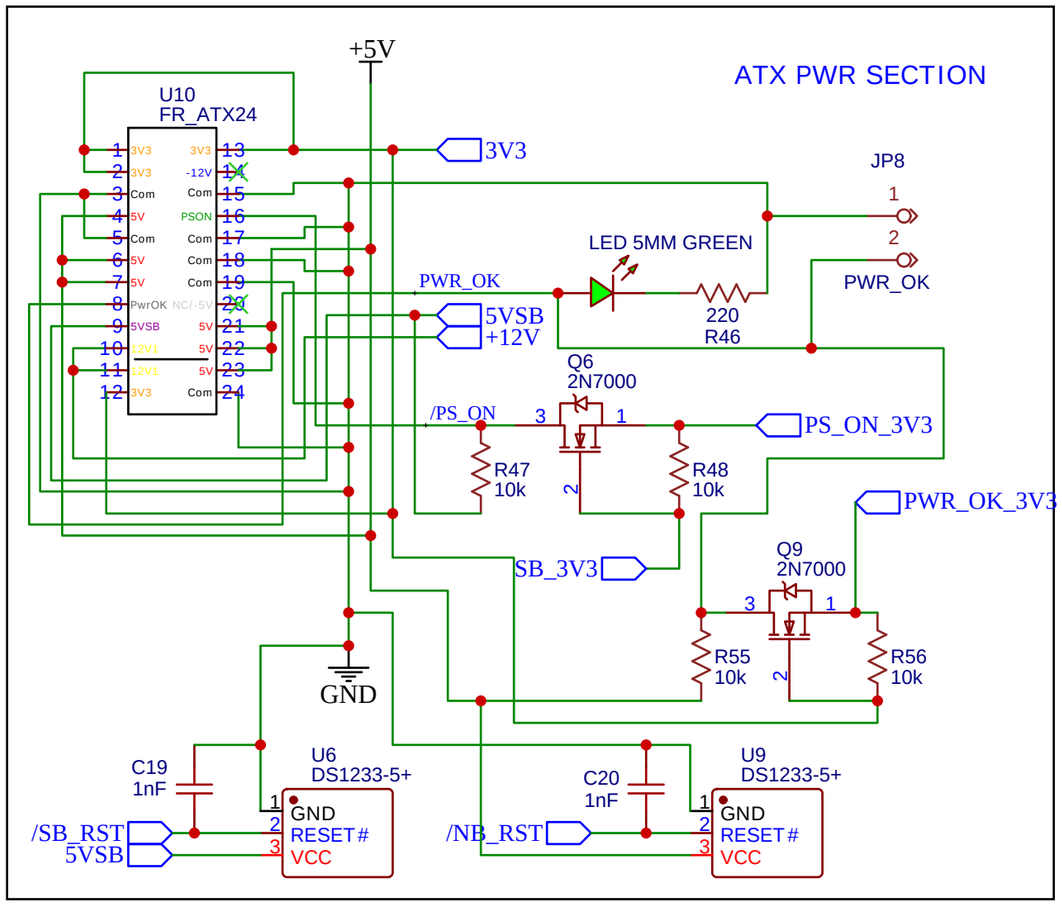
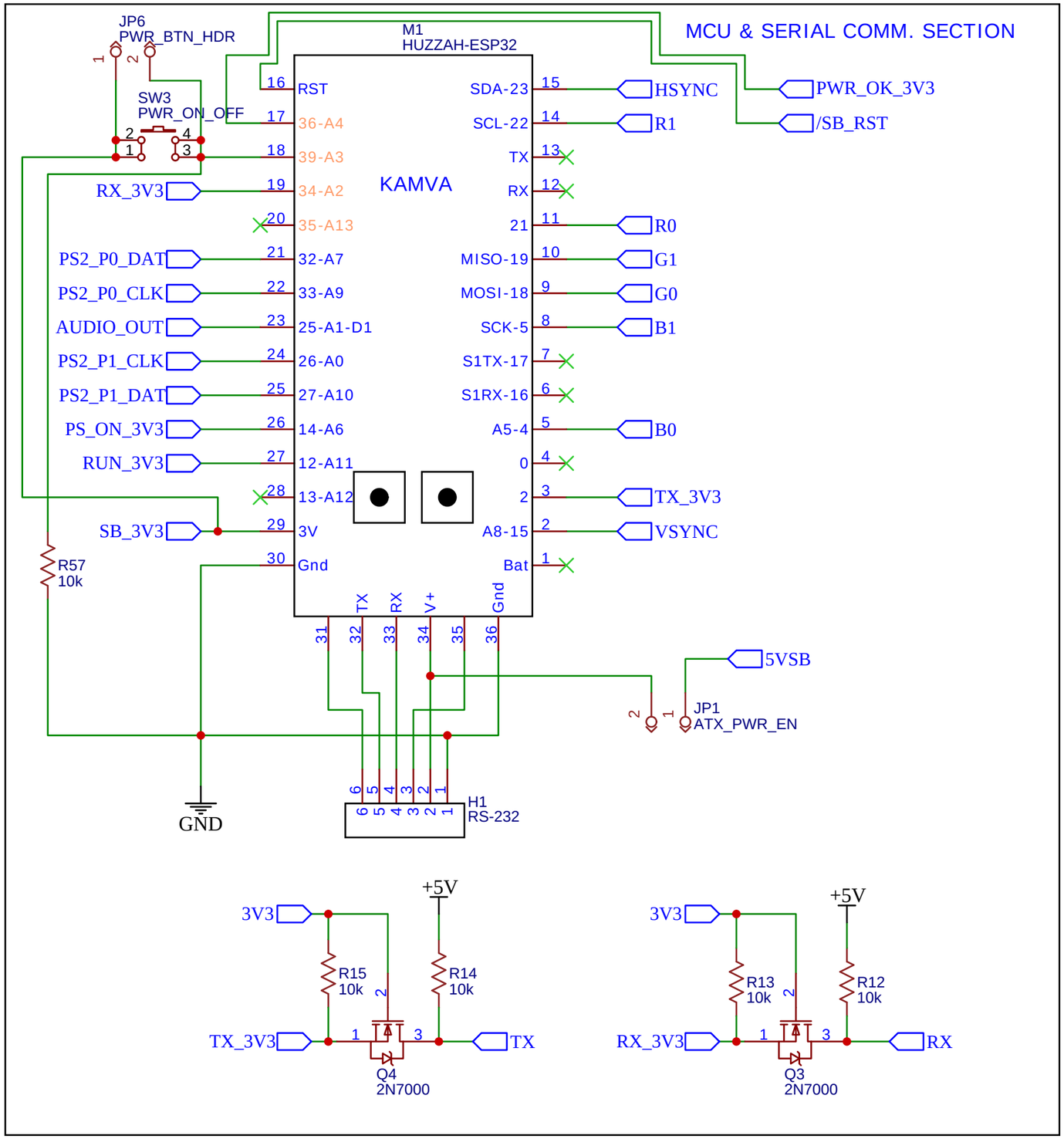

RP1
Resistor SIL x8
RP2
Resistor SIL x8
+5V
GND
R6
10K
Q2
2N2907
/BUSACK
/NMI
R7
1K
LED3
DMA
PD7
CLK
PC6
/RESET
PB1
/INT
R8
10K
PD6
/BUSREQ
D7
D6
D5
D4
D3
D2
D1
D0
U1
Z80
VCC
CLK
/RESET
/NMI
/INT
/BUSRQ
/WAIT
GND
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
/MREQ
/IORQ
/RD
/WR
/BUSAK
/RFSH
/HALT
/M1
U2
AS6C1008-55PCN
NC
VDD
GND
CE2
CE1
R/W
OE
IO8
IO7
IO6
IO5
IO4
IO3
IO2
IO1
RAM_CE2
PB2
RAM_A15
RAM_A16
U3
74HC00N
1A
1B
1Y
2A
2B
2Y
VCC
4A
4B
4Y
3A
3B
3Y
Q1
2N2907
R4
10K
R5
680
LED2
HALT
PD4
BANK0
/HALT
R1
10K
/IORQ
PB3
/WAIT
PB0
/WAIT_RES
R2
1K
LED1
IO_OP
PC4
PC3
PC5
PC2
D2
1N5817_C698892
D1
1N5817_C698892
PD3
BANK1
R3
1K2
C1
100nF
C2
100nF
C3
100nF
TITLE:
CyBorg - CPU, RAM, Bus
REV: 1.3
Company: CyrusBuilt
Sheet: 1/6
Date: 2022-11-21
Drawn By: Chris Brunner
嘉立创EDA



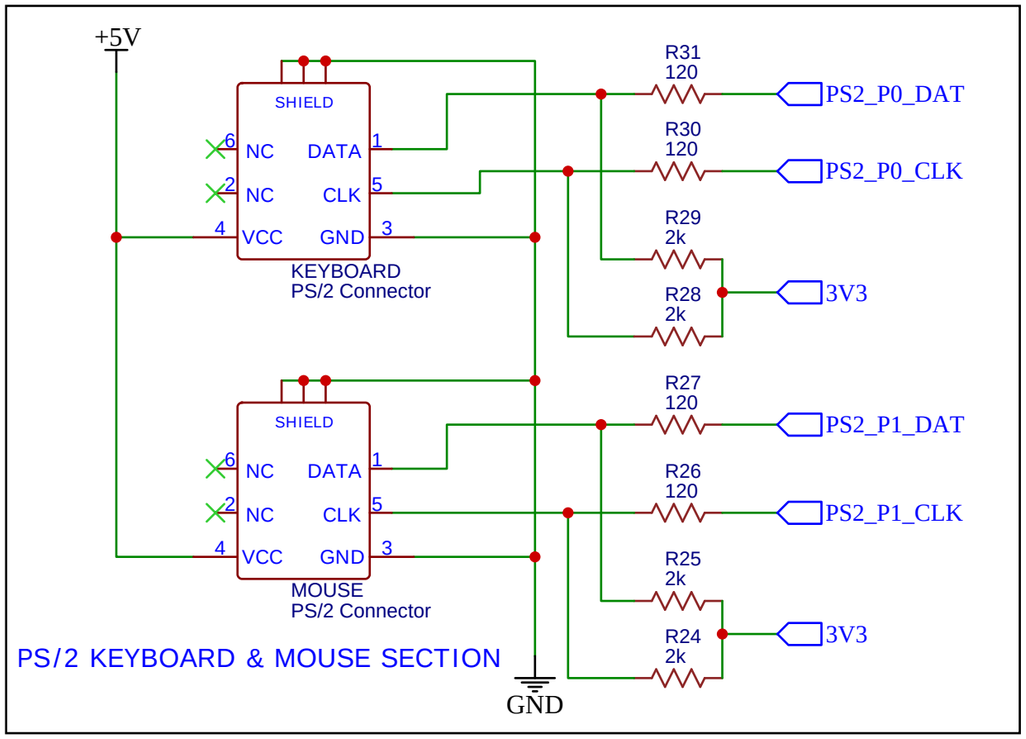
TITLE: CyBorg - ViCREM (Northbridge) and RTC		REV: 1.3
嘉立创EDA	Company: CyrusBuilt	Sheet: 2/6
	Date: 2022-11-22 Drawn By: Chris Brunner	

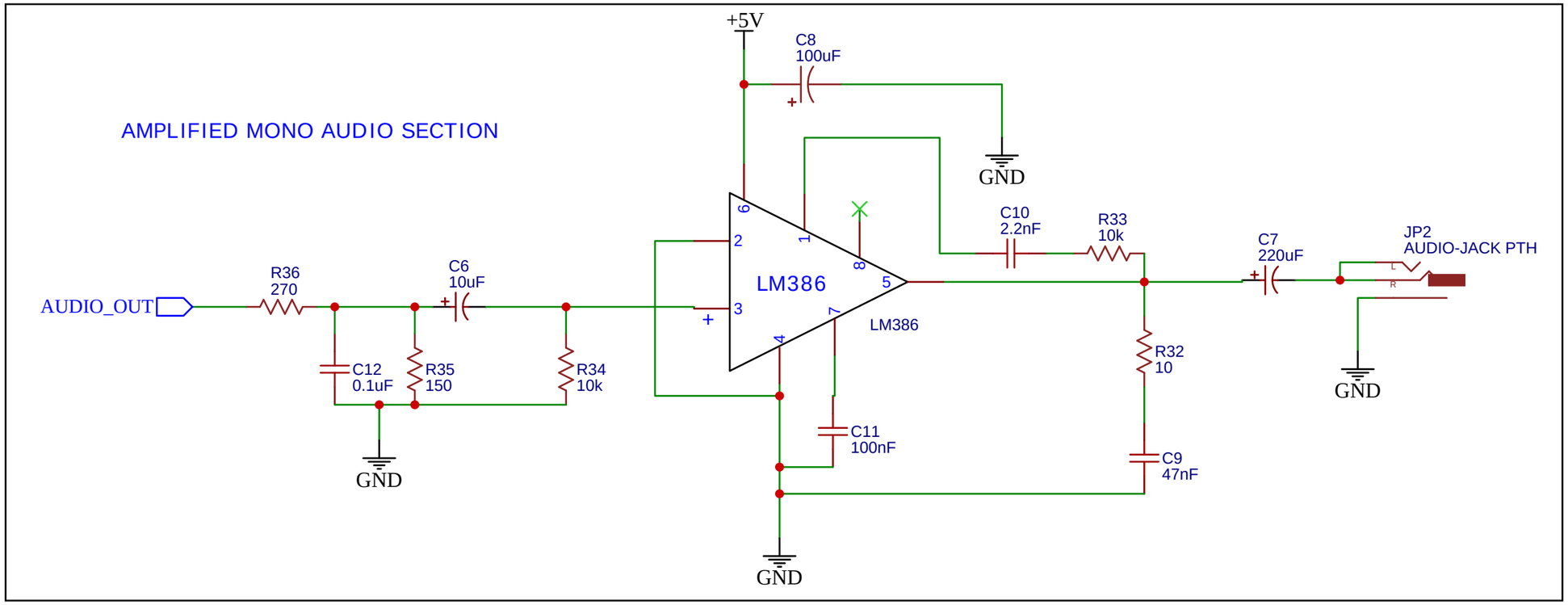




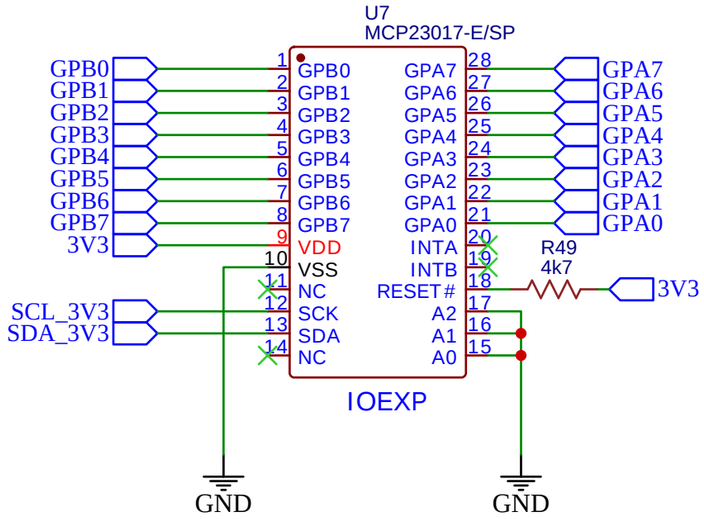


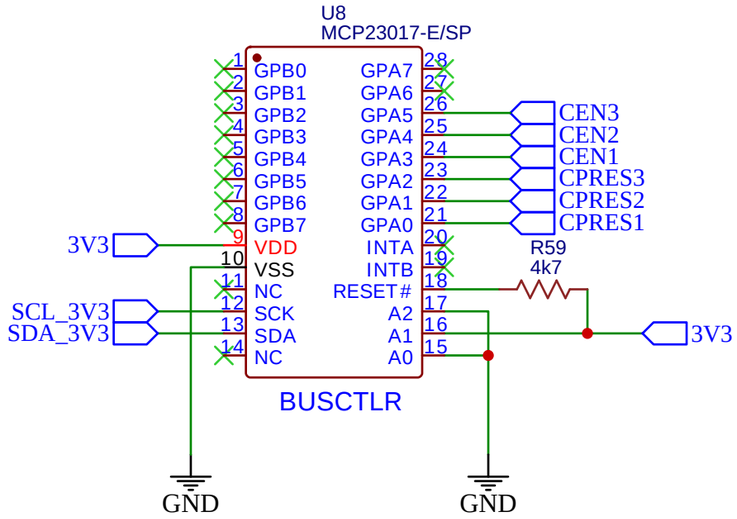
TITLE: CyBorg - KAMVA (Southbridge) - MCU & VGA		REV: 1.3
嘉立创EDA	Company: CyrusBuilt	Sheet: 3/6
	Date: 2022-11-23 Drawn By: Chris Brunner	





TITLE: CyBorg - KAMVA (Southbridge) - Audio & PS/2	REV: 1.3
Company: CyrusBuilt	Sheet: 4/6
Date: 2022-11-23 Drawn By: Chris Brunner	





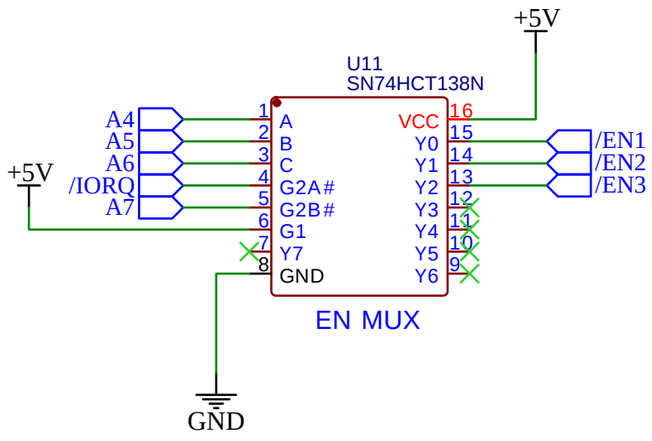
Reserved I2C Addresses

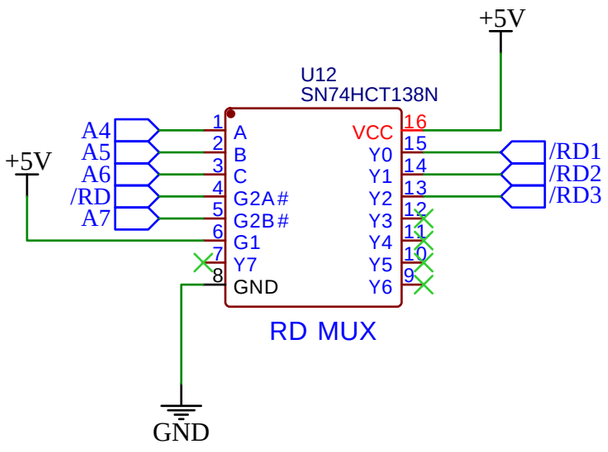
0x68 - RTC

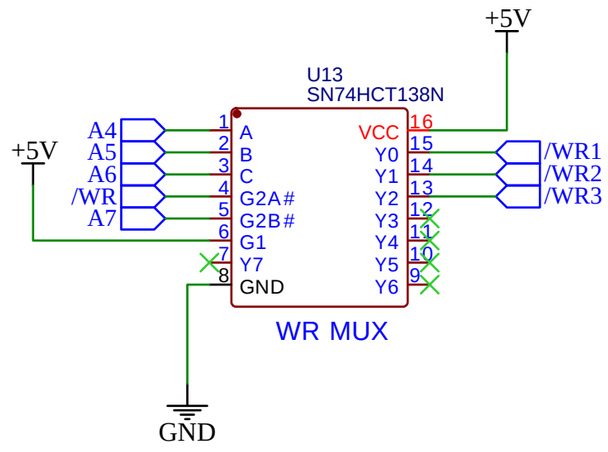
0x20 - IOEXP

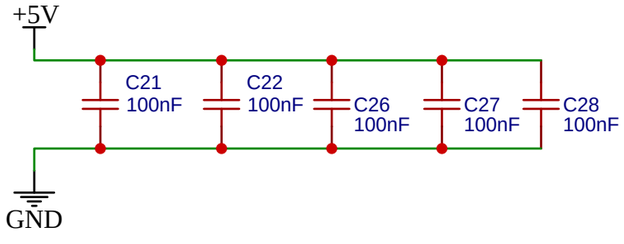
0x21 - CyBorgSPP

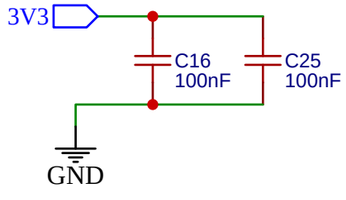
0x22 - BUSCTLR





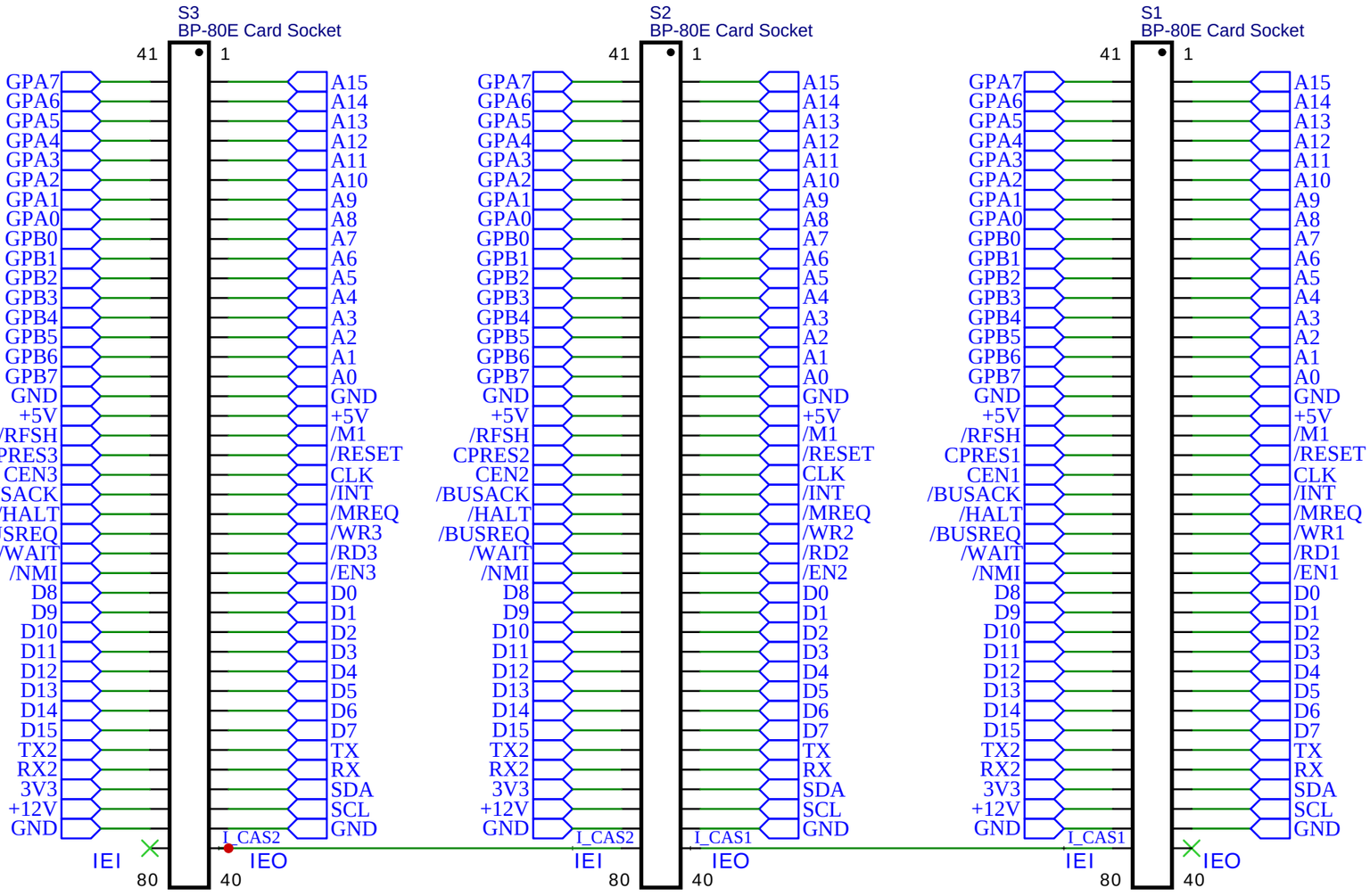




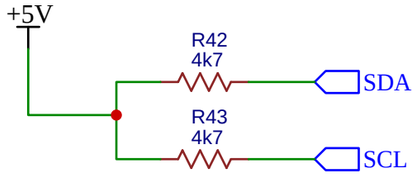


TITLE: CyBorg - Bus Control		REV: 1.3
嘉立创EDA	Company: CyrusBuilt	Sheet: 5/6
	Date: 2022-11-24	Drawn By: Chris Brunner

Use caution when using add-on cards designed for RC2014!!



BP-80E is an unofficial variant of the RC2014 bus. BP-80E is essentially a modification of the RC80 bus which is also an unofficial RC2014 bus variant. The major differences are: A16-A23 are instead assigned to GPB0-7, n41-n48 are instead assigned to GPA0-7, pins 60 & 61 are used for detection, and USER pins are assigned to extra power pins and(much like RC80) I2C bus, and interrupt cascade. This creates the potential danger when using cards designed for RC2014 and the like:
If the add-on doesn't expect power on the USER pins (for example), you could fry the board or worse. Any add-on card that just uses the traditional power pins, address bus, data bus, and control signals should work fine and, of course, any boards specifically designed for the BP-80E bus should also be fine. In a future version I may change this to an entirely different slot type to avoid potential problems.



I2C Bus Term On Slot 3

TITLE: CyBorg - Expansion Bus		REV: 1.3
EasyEDA	Company: CyrusBuilt	Sheet: 6/6
	Date: 2024-11-05 Drawn By: Chris Brunner	