

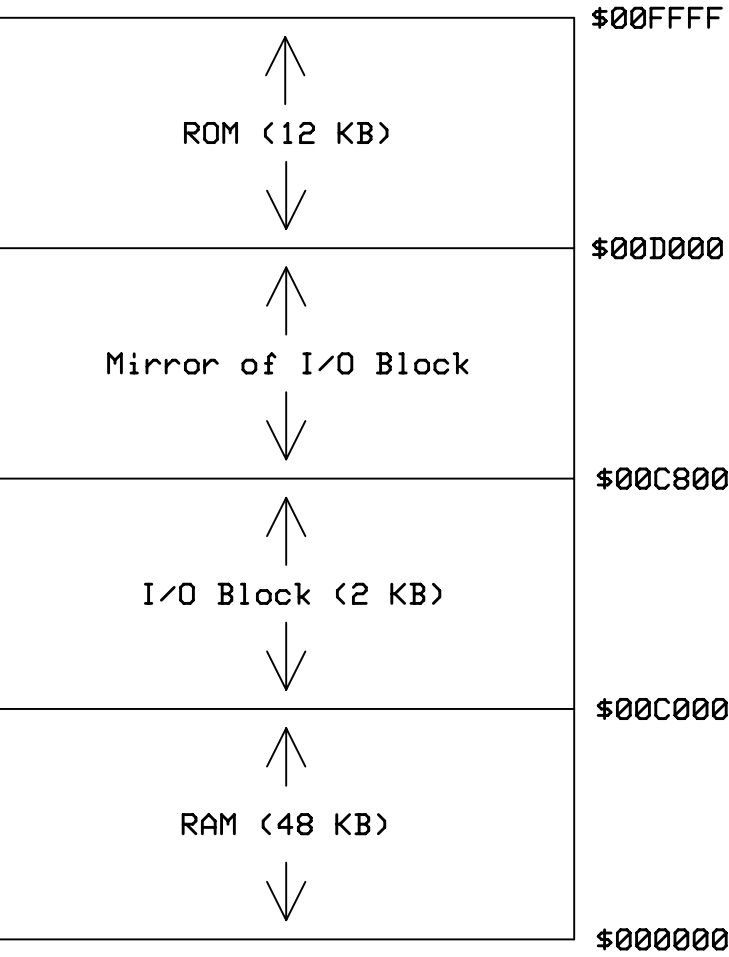
PROOF OF CONCEPT V1

SINGLE-BOARD COMPUTER

128 Kilobyte Static RAM System

Powered by the W65C816S Microprocessor

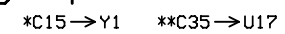
Designed by BigDumbDinosaur

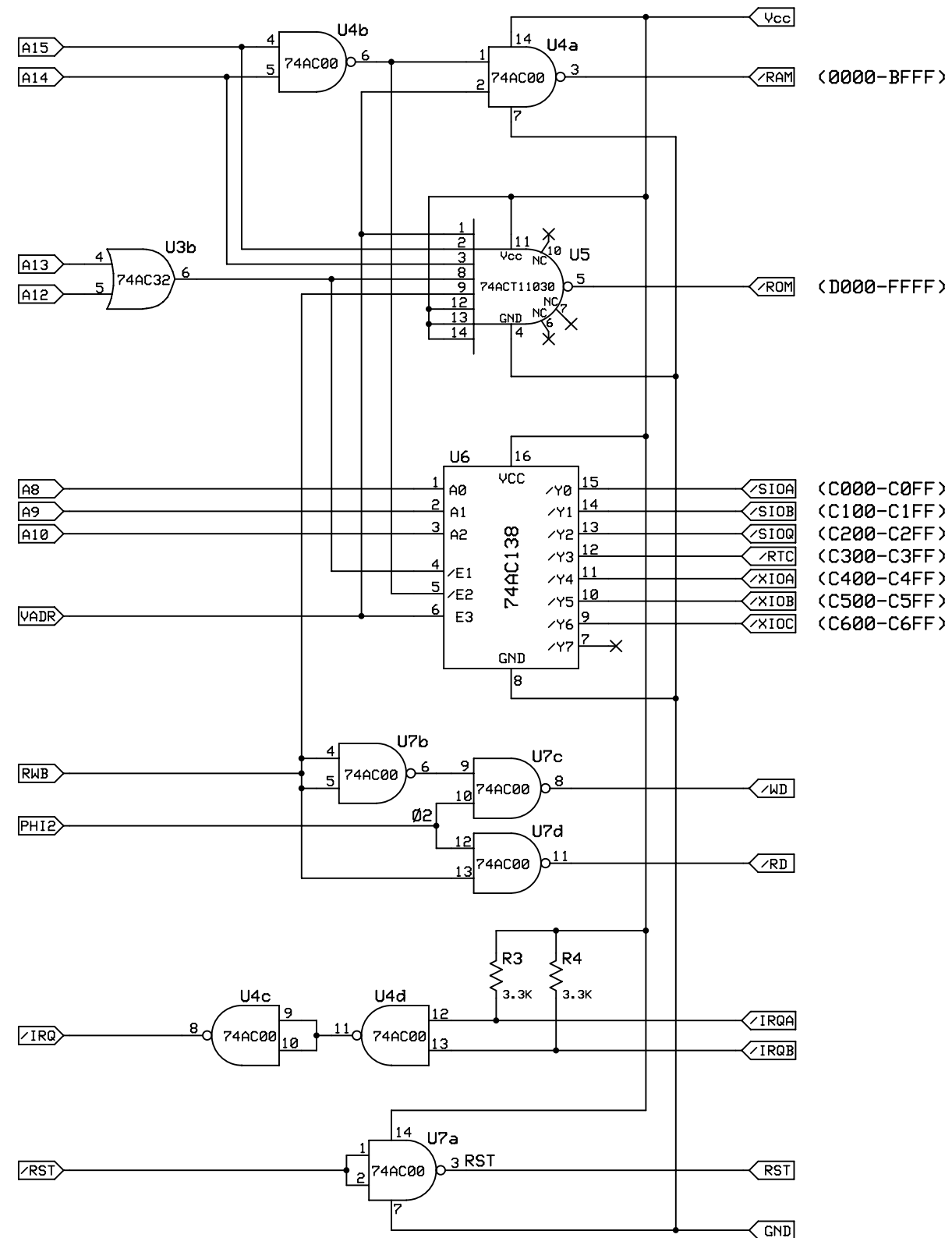


POC V1.2 MEMORY MAP																			
	8 0 0 0	4 0 0 0	2 0 0 0	1 0 0 0	0 8 0 0	0 4 0 0	0 2 0 0	0 1 0 0	0 0 8 0	0 0 4 0	0 0 2 0	0 0 0 8	0 0 0 4	0 0 0 2	0 0 0 1			SIZE	
ADDRESS	A15	A14	A13	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1	A0	SYMBOL	ASSIGNMENT	KB
\$000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	RAM	RAM Start	48.00
\$00BFFF	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		RAM End	
\$00C000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	IOBLK (1)	I/O Start	4.00
\$00CFFF	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1		I/O End	
\$00D000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	ROM	ROM Start	12.00
\$00FFFF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		ROM End	

1) Mirrors at \$C800 due to not being fully decoded.

I/O BLOCK DECODING										
	8	4	2	1	0	0	0	0		
	0	0	0	0	8	4	2	1		
	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0		
ADDRESS	A15	A14	A13	A12	A11	A10	A9	A8	ASSIGNMENT	SYMBOL
\$00C000	1	1	0	0	0	0	0	0	vQUART Channels A-B, timer A	SIOA
\$00C100	1	1	0	0	0	0	0	1	vQUART Channels C-D, timer B	SIOB
\$00C200	1	1	0	0	0	0	1	0	vQUART Channel IRQ Status	SIOQ
\$00C300	1	1	0	0	0	0	1	1	Real-Time Clock	RTC
\$00C400	1	1	0	0	0	1	0	0	Expansion Select A	XIOA
\$00C500	1	1	0	0	0	1	0	1	Expansion Select B	XIOB
\$00C600	1	1	0	0	0	1	1	0	Expansion Select C	XIOC
\$00C700	1	1	0	0	0	1	1	1	---	---



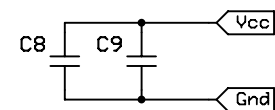
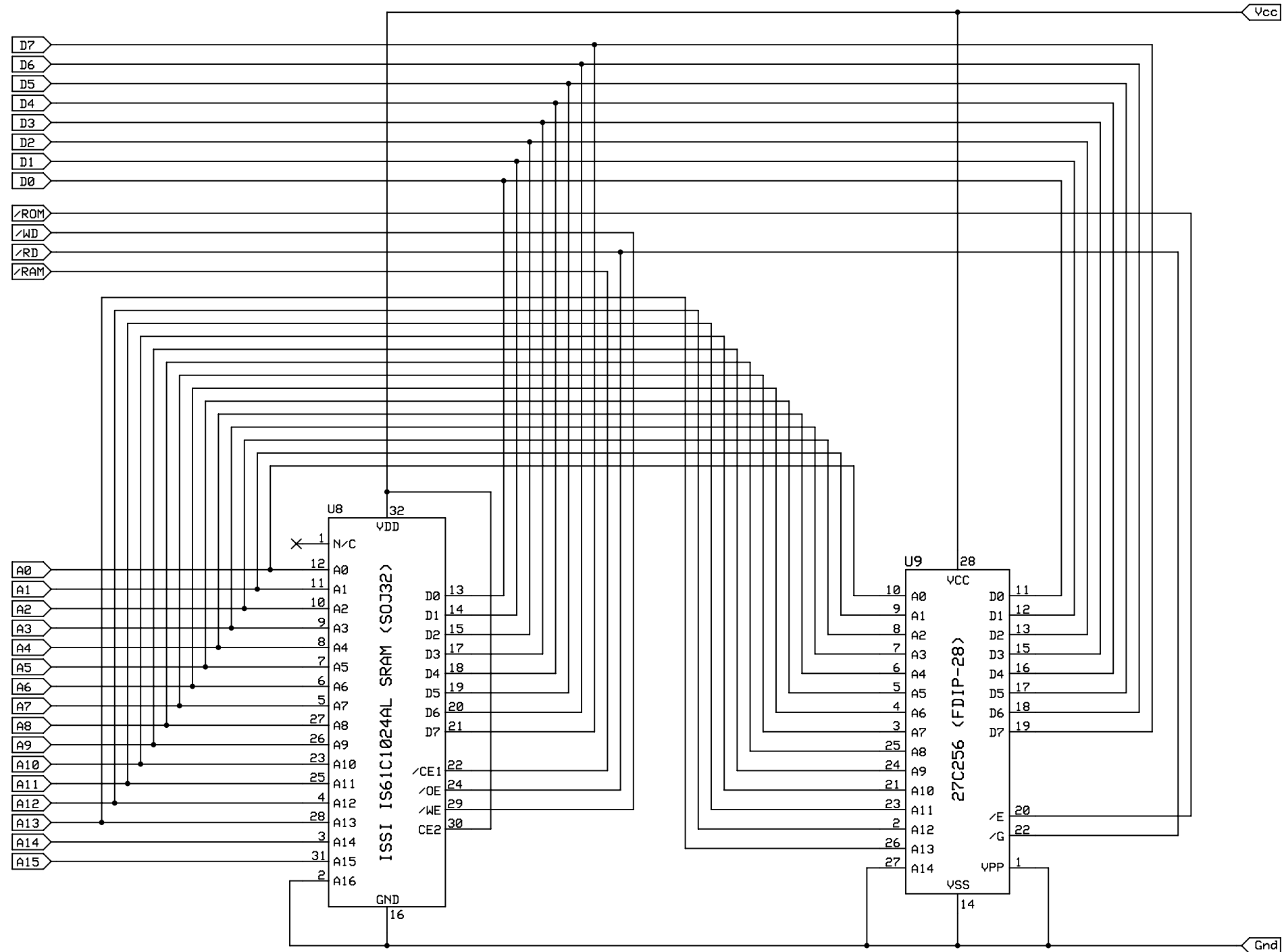


Decoupling Capacitors -- 0.1 uf @ 50v

GLUE LOGIC

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W65C816S SINGLE BOARD COMPUTER

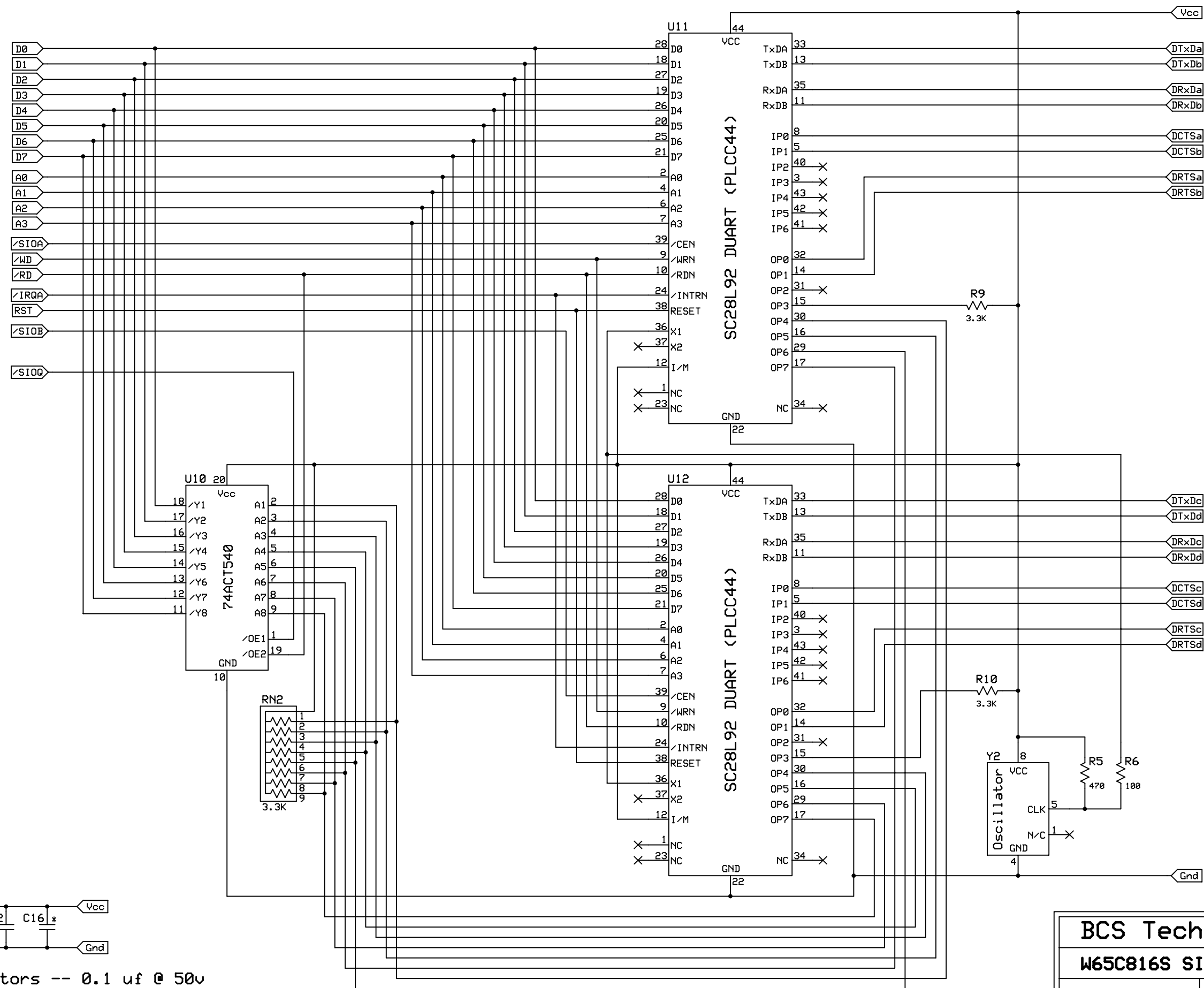
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Decoupling Capacitors -- 0.1 uf @ 50v

RAM & ROM

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Channels A-B

Channels C-D

Decoupling Capacitors -- 0.1 uf @ 50v

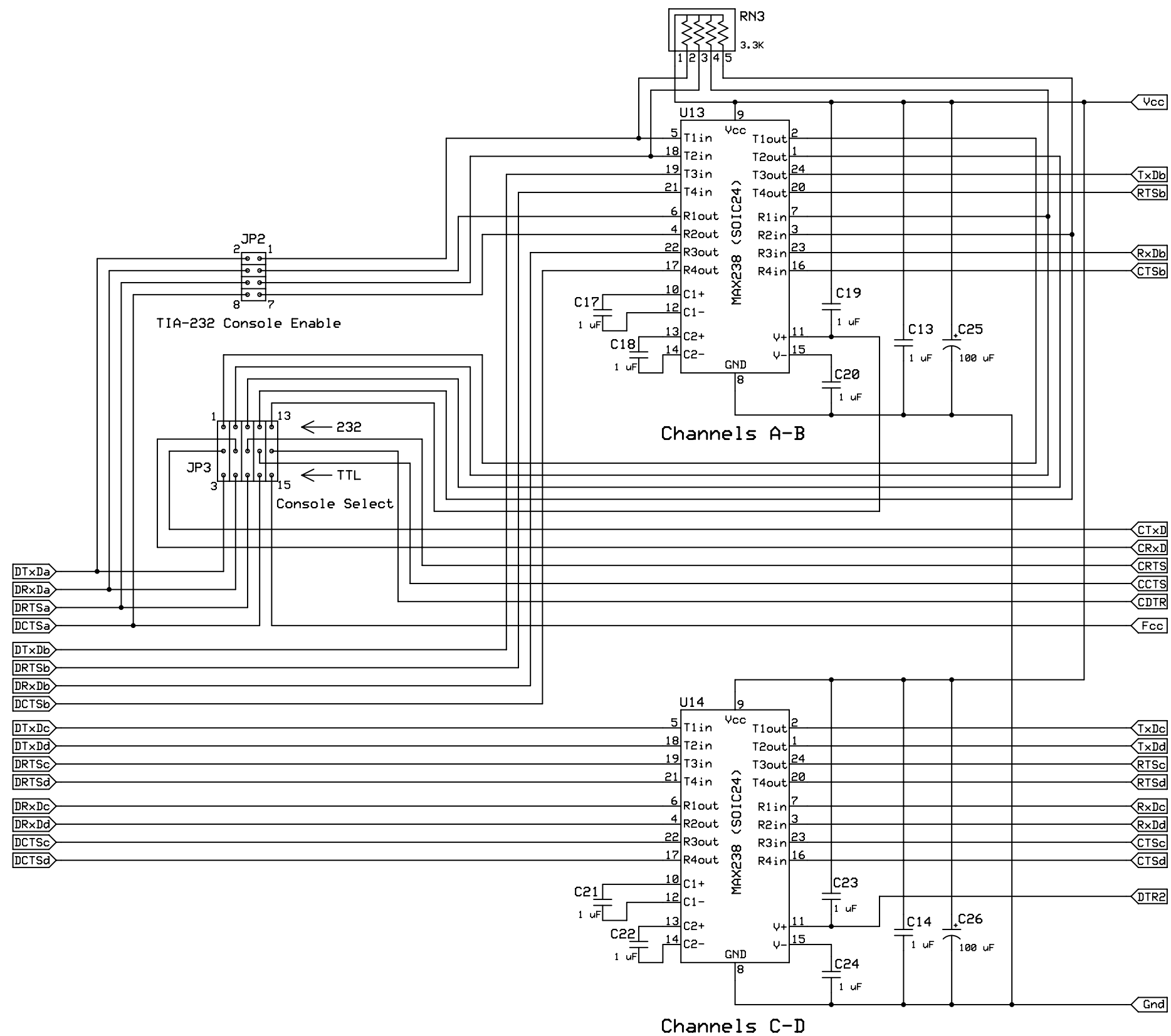
*C16 → Y2

SERIAL INTERFACE

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TIA232 INPUT/OUTPUT

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