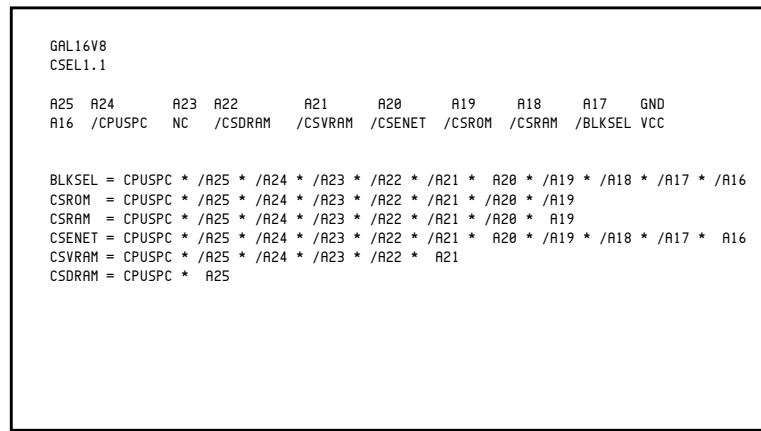
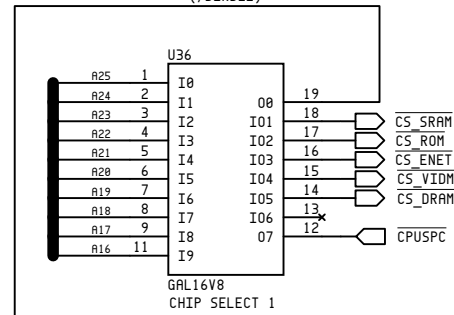


WAITIN	ADDW	WAIT STATES
ON	ON	4
ON	OFF	3
OFF	ON	3
OFF	OFF	2

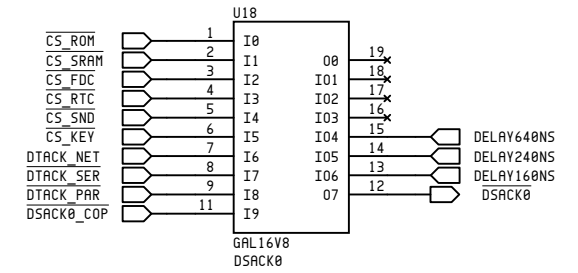
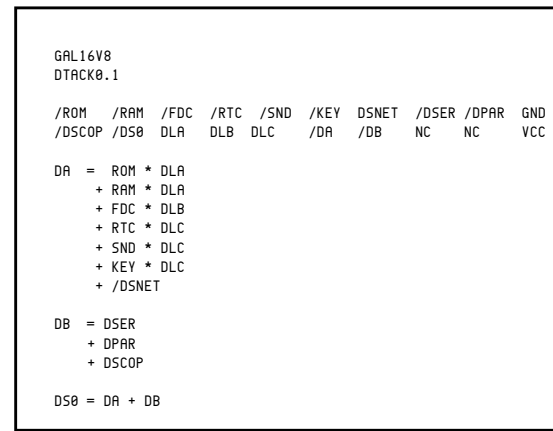
CHIP SELECT 1



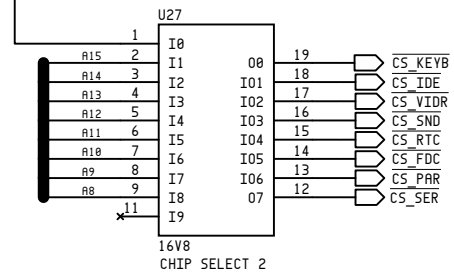
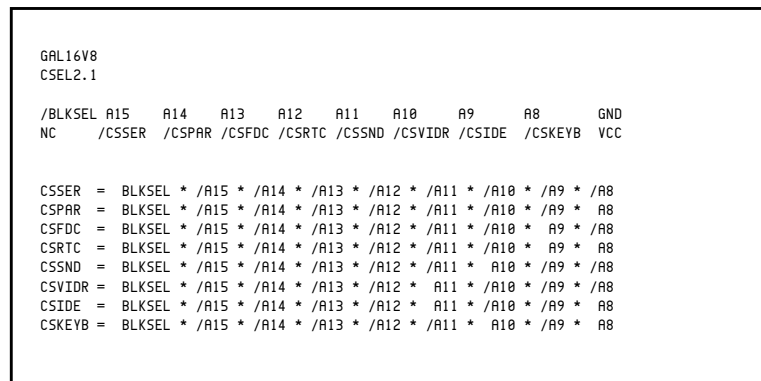
(/BLKSEL)



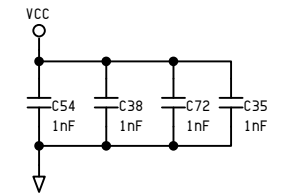
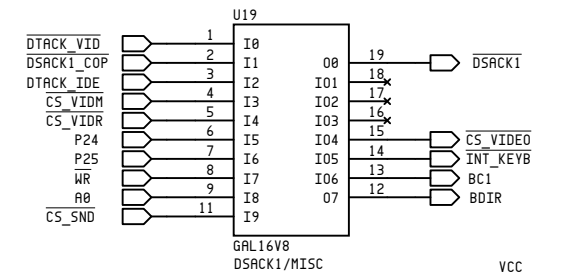
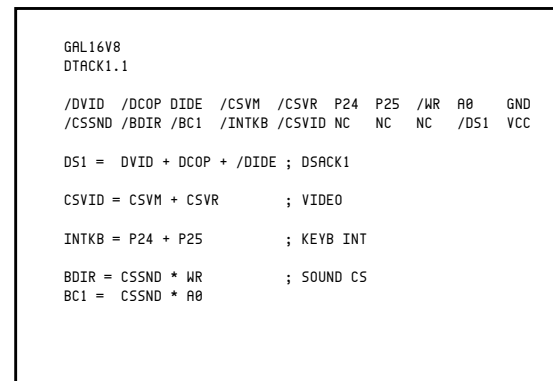
DSACK0 LOGIC



CHIP SELECT 2



DSACK1 / MISC DECODE

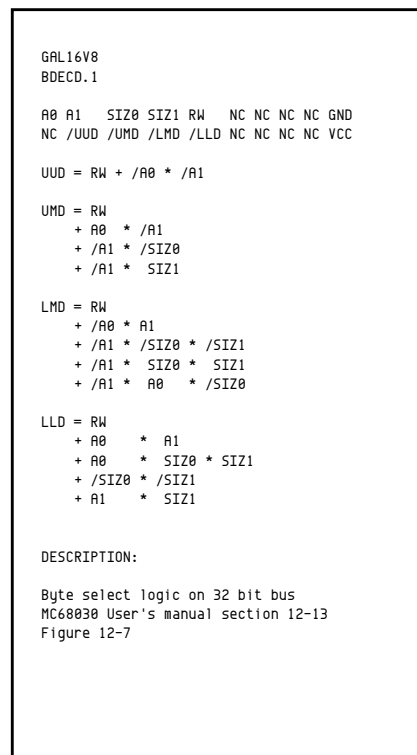


MEMORY MAP

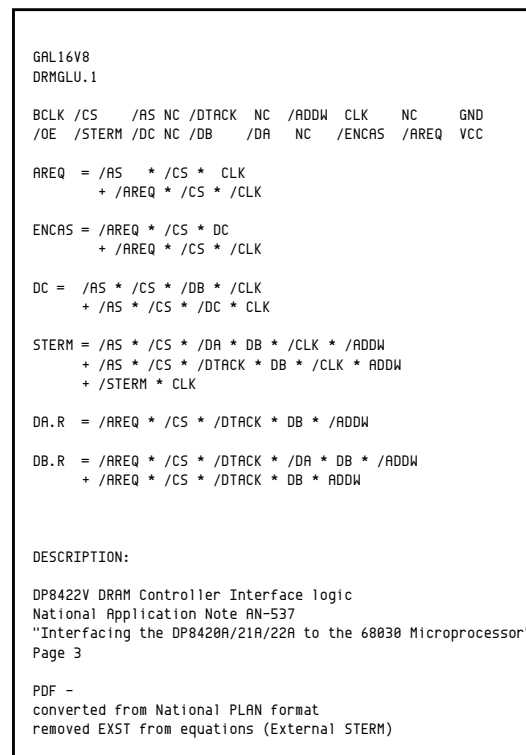
DEVICE	BASE ADDRESS HEX	SIZE (BYTES) DEC	HEX
ROM	00000000-0007FFFF	524288	00000000
SRAM	00080000-000FFFFF	524288	00000000
SERPORT	00100000-001000FF	256	00000100
PARPORT	00100100-001001FF	256	00000100
FDC	00100200-001002FF	256	00000100
RTC	00100300-001003FF	256	00000100
SOUND	00100400-001004FF	256	00000100
KEYBD	00100500-001005FF	256	00000100
---	00100600-001009FF		
VIDREG*	00100A00-00100AFF	256	00000100
IDE*	00100B00-00100BFF	256	00000100
---	00100C00-0010FFFF		
ETHNET	00110000-0011FFFF	65536	00010000
---	00120000-001FFFFF		
VIDRAM*	00200000-003FFFFF	2097152	00200000
---	00400000-01FFFFFF		
DRAM#	02000000-03FFFFFF	33554432	02000000
---	04000000-FFFFFF		

*16 bit device / #32 bit device
IDE is base address for drive 0
Drive 1 is base + 128

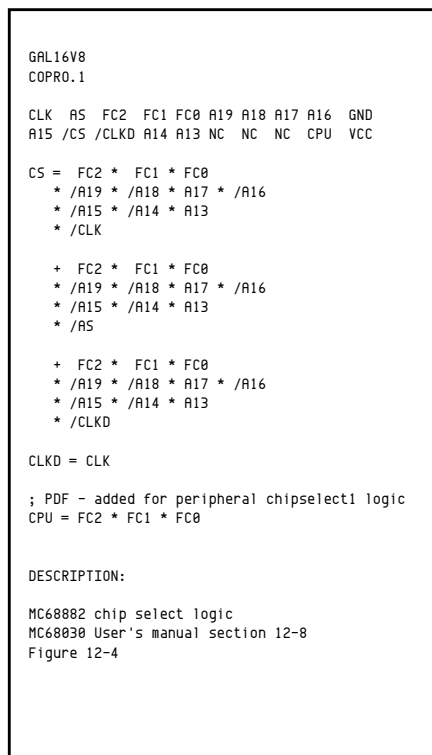
BYTE DECODE



DRAM INTERFACE



COPROCESSOR DECODE



NOTES:

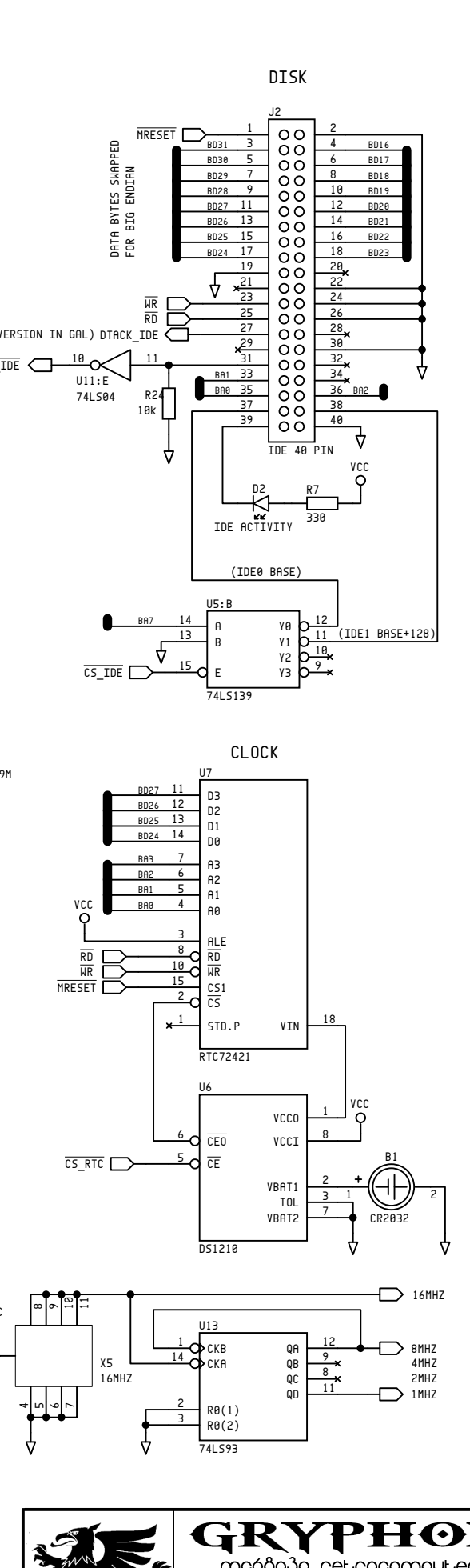
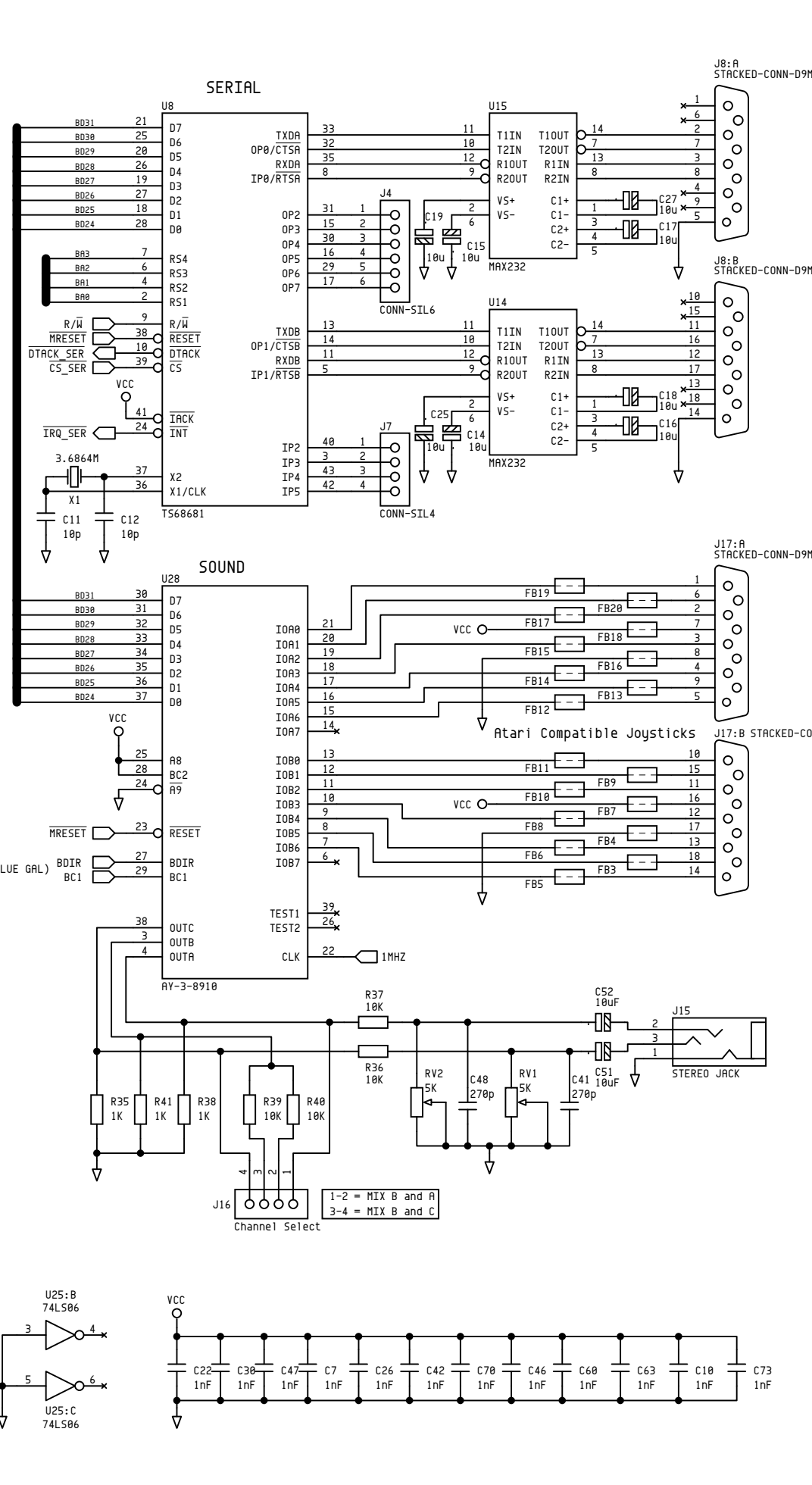
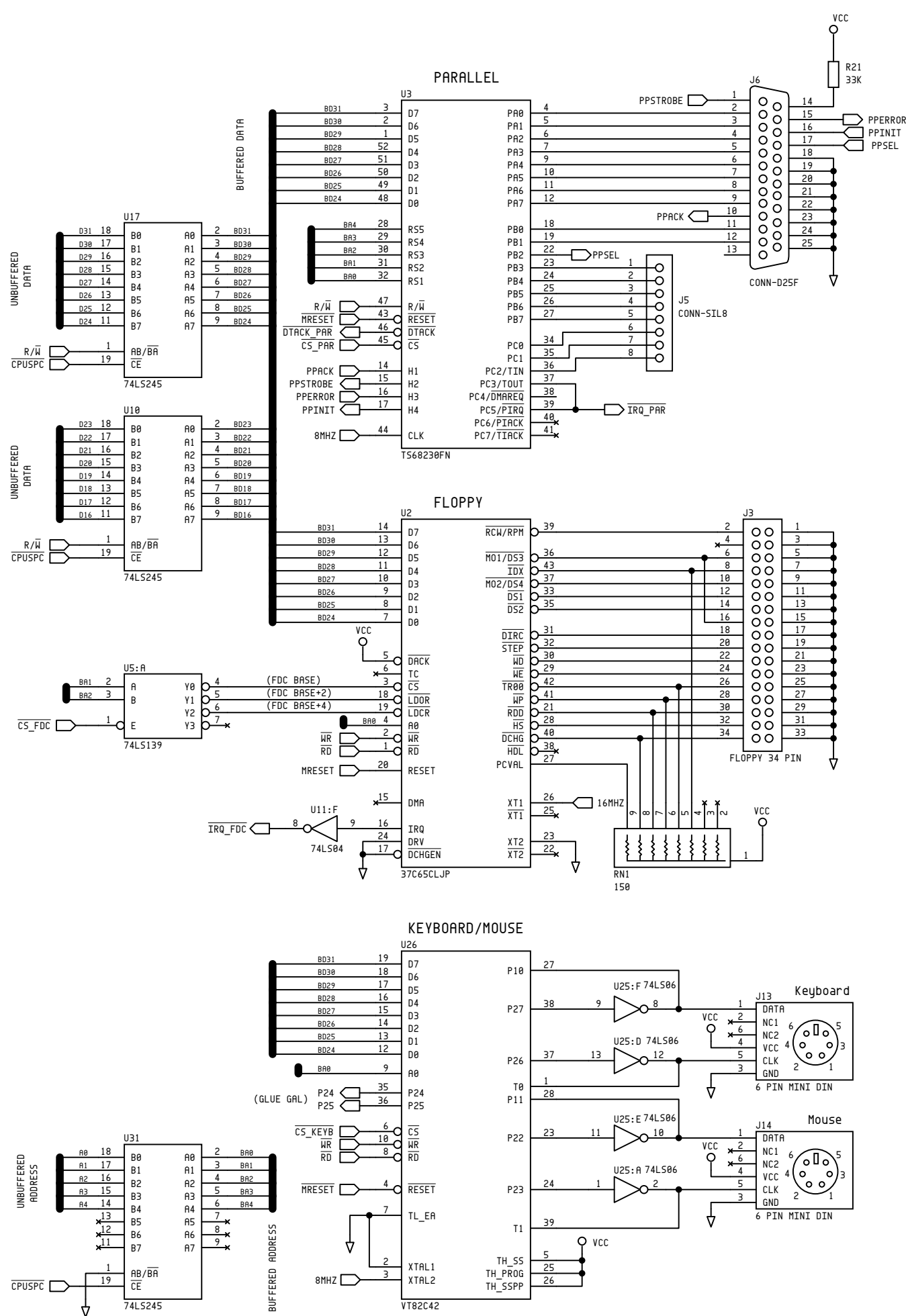
8422V PROGRAMMING

TI DP8422V Datasheet Ref. Page 9 section 3.2.2

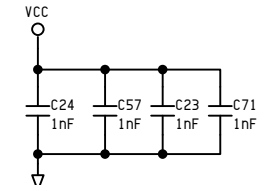
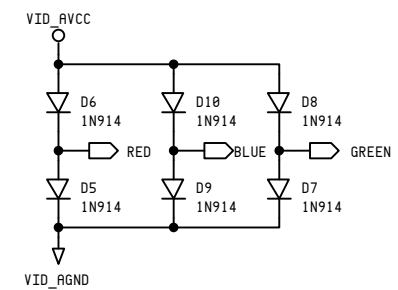
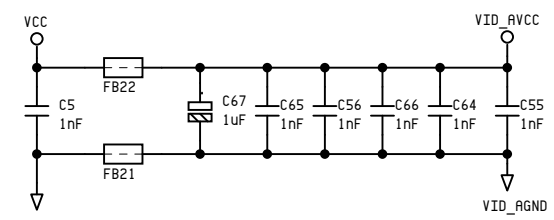
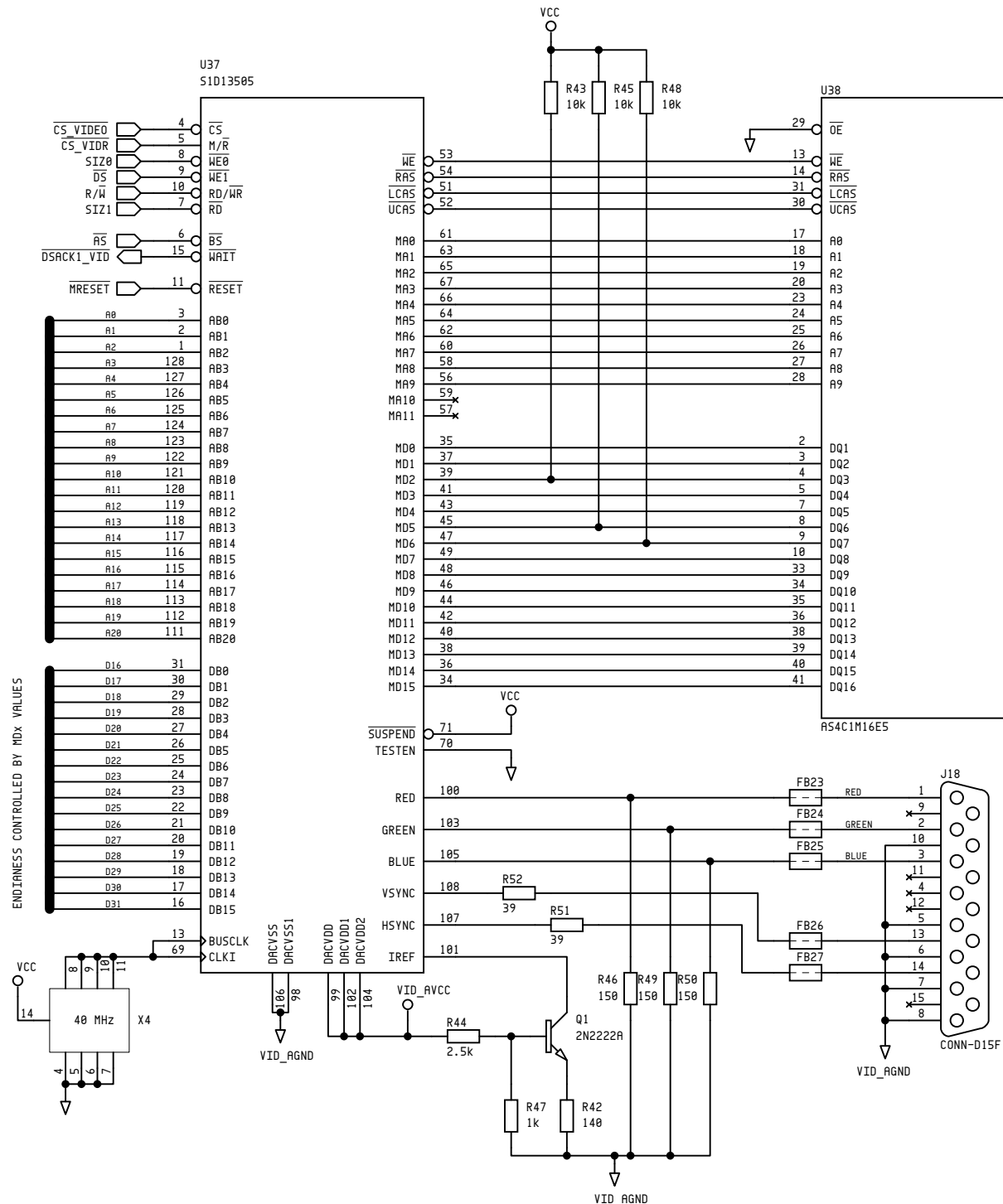
Chip select access programming. Reset causes /DISRFSH to assert and FF to assert /ML. The first write of CPU on boot MUST provide 8422 programming data with program word on address bus, asserting /CS_DRAM. Upon write completion FF will negate /ML and write cycle terminates via normal /STERM. 8422 will be ready for normal operation.



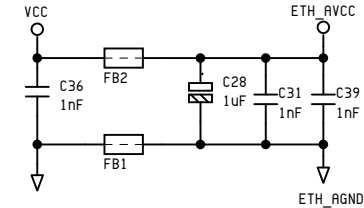
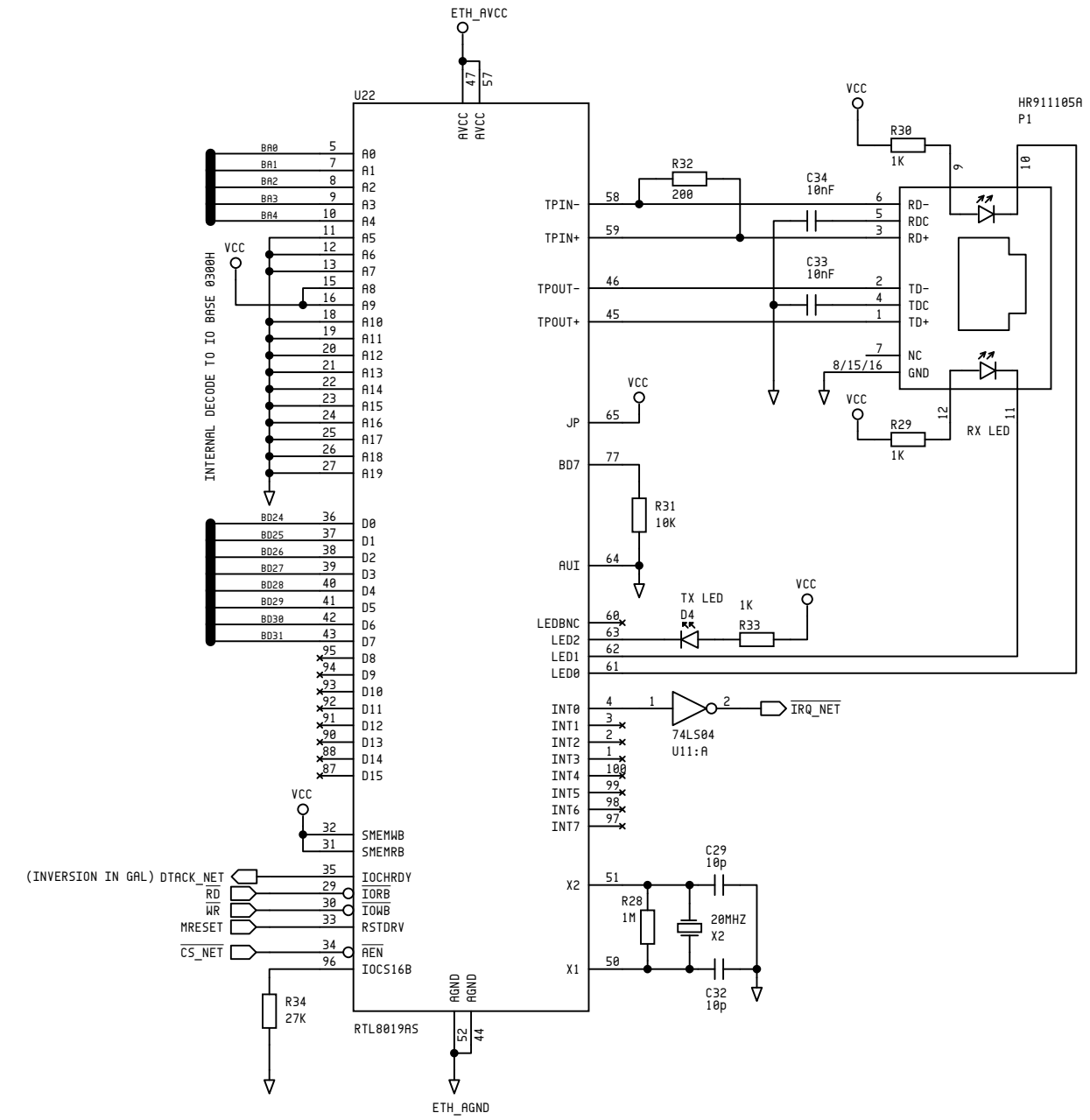
GRYPHON
moderno retracomputer



VIDEO



ETHERNET



S1013505 CONFIGURATION

	1G BIT HOST	MC68K BUS2	MC68K BUS2	MC68K BUS2	BIG ENDIAN	WAIT# - WAIT HIGH	SYMMETRIC 1MB	SYMMETRIC 1MB	SUSPEND# INPUT	GPO POLARITY	PRIMARY BUS INT#	BUSCLK 1:1 CLK	
MD	0	1	2	3	4	5	6	7	8	9	10	11	12
VALUE	0	0	1	0	0	1	1	0	X	0	0	0	0

0 = INTERNAL PULLDOWN

GRYPHON
modoboo retracomputer

Video/Ethernet Sheet 4 of 4 Rev 1.0
Paul D. Fincato 2012-2014 22 August 2014
Welcome back to the nineties!

B