Bus interface: buffers, the page, which register

File: video-card-1.kicad_sch

The chip's cycle and the data lanes

File: video-card-2.kicad_sch

The ACRTC and its host pins

File: video-card-3.kicad_sch

Dot clock, the counter and the memory control

File: video-card-4.kicad_sch

Frame buffer: the address latches, the RAMs, the font

File: video-card-5.kicad_sch

Dots: the shift registers, the control register, VGA

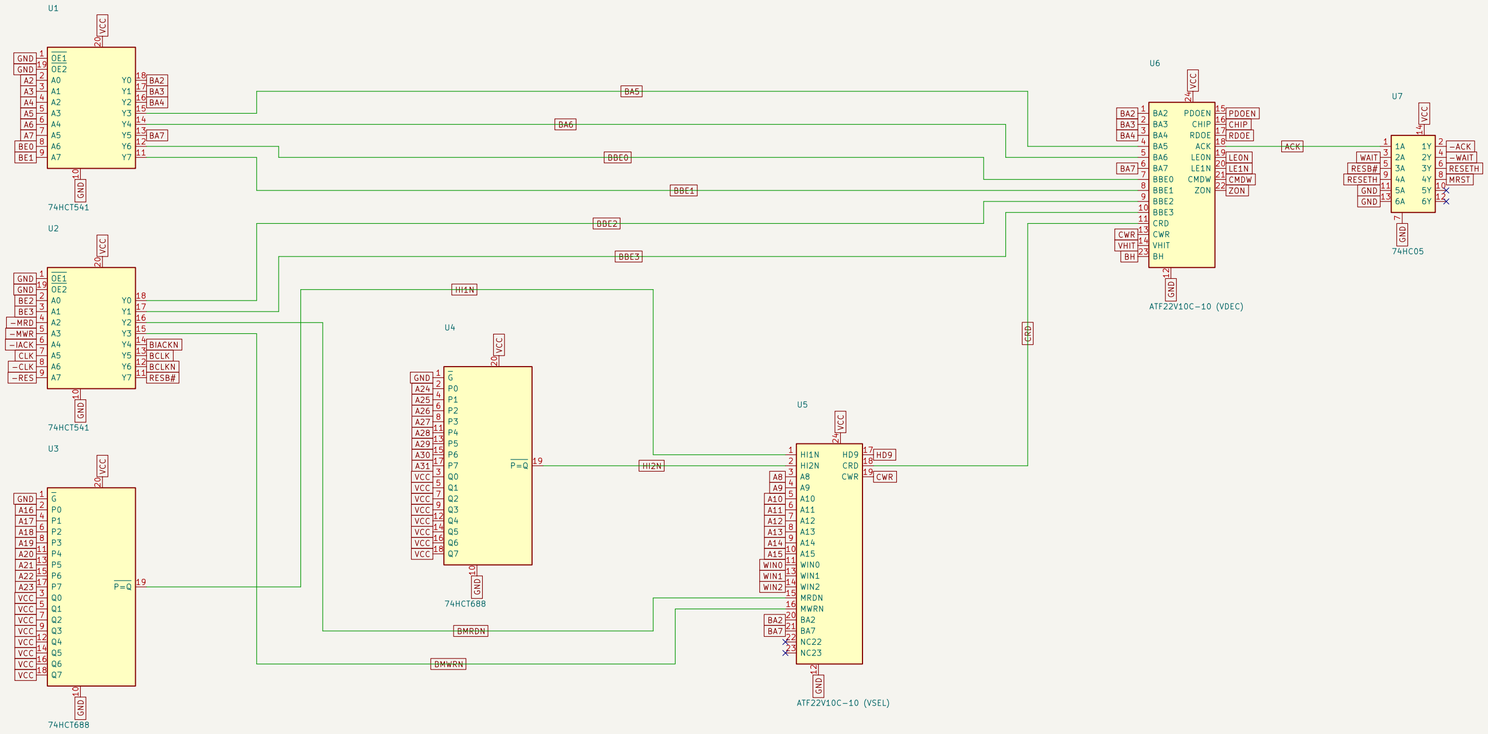
File: video-card-6.kicad_sch

Generated by generators/p32kicad_sch.py — do not edit
Root sheet: one block per functional sheet
P32W

Sheet: /
File: video-card.kicad_sch

Title: P32W VIDEO CARD

Size: A4	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 1/12



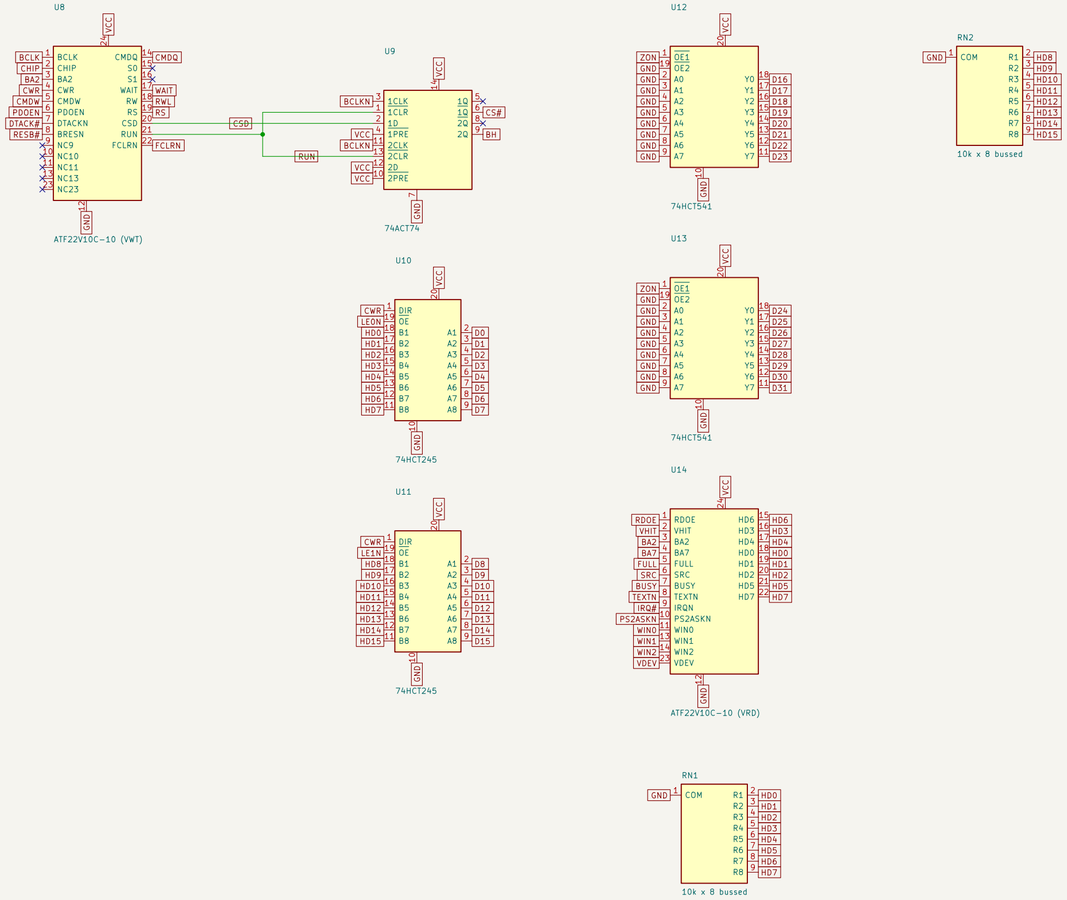
Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
Bus interface: buffers, the page, which register

P32W

Sheet: /Bus interface: buffers, the page, which register/
File: video-card-1.kicad_sch

Title: P32W VIDEO CARD

Size: A2	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 2/12



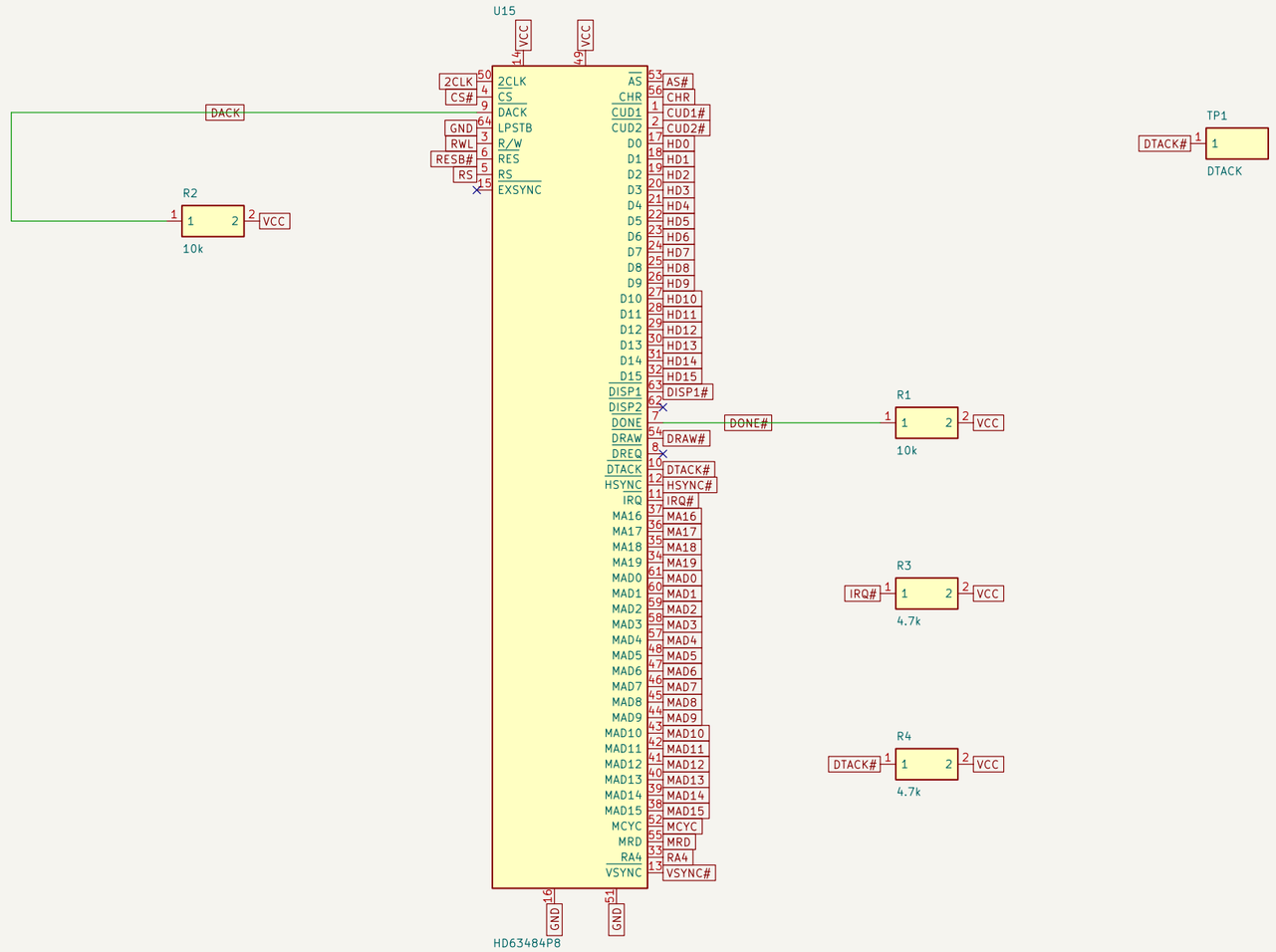
Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
The chip's cycle and the data lanes

P32W

Sheet: /The chip's cycle and the data lanes/
File: video-card-2.kicad_sch

Title: P32W VIDEO CARD

Size: A2	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 3/12



Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
The ACRTC and its host pins
P32W

Sheet: /The ACRTC and its host pins/
File: video-card-3.kicad_sch

Title: P32W VIDEO CARD

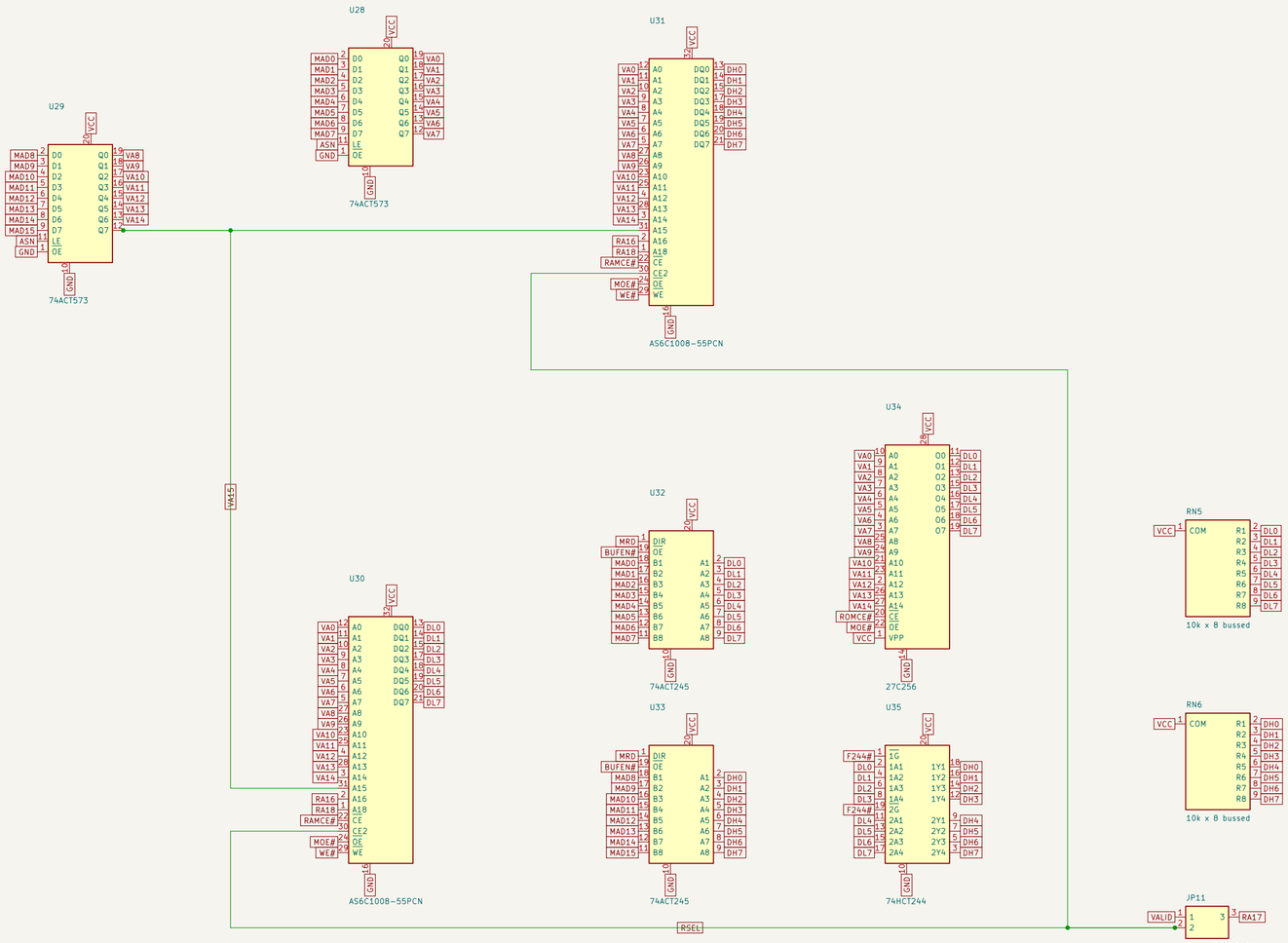
Size: A3	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 4/12

U19
74ACT04
U20
74ACT10
U16
25.175 MHz oscillator
U17
74F163A
U18
74F74
U22
74ACT32
U24
74ACT00
U25
74ACT32
U27
74F21
U26
74F74
U23
74ACT08
U21
74ACT11
R5
1k
MA19N
LD163#
MCYCN
WN
GBN
P56D
P56
N8X
BUFT
DRAWN
DISPBG
VIDN
BUFO
BUFGN
DISPON
BGON
AS#
MCYC
2CLK
QC
MA19
DISP1#
ASN
QCN
MOE#
VALID
TXOR
GDEL
TDOT
P56#
F244#
GOT
WE#
GLOAD
VIDQ
HSYNC#
MRD
HSCK
BUFEN#
RAMCE#
CHRN
DISPWN
MA16
MA17
MA18
CHR
RA16
RA17
RA18
ROMCE#
VCC
GND
PU
CK
W
DRAW#
MRDN
QA
QB
QC
QD
RCO
ENP
ENT
LOAD
CLR
A
B
C
D
EN
OUT
1A
1B
2A
2B
3A
3B
4A
4B
1Y
2Y
3Y
4Y
1CLK
1CLR
1D
1PRE
2CLK
2CLR
2D
2PRE
1Q
2Q
NC3
NC11
5Y
6A
6Y
1C
2C
3C
QCN
GND
2PRE

Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
Dot clock, the counter and the memory control
P32W
Sheet: /Dot clock, the counter and the memory control/
File: video-card-4.kicad_sch

Title: P32W VIDEO CARD

Size: A2	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 5/12



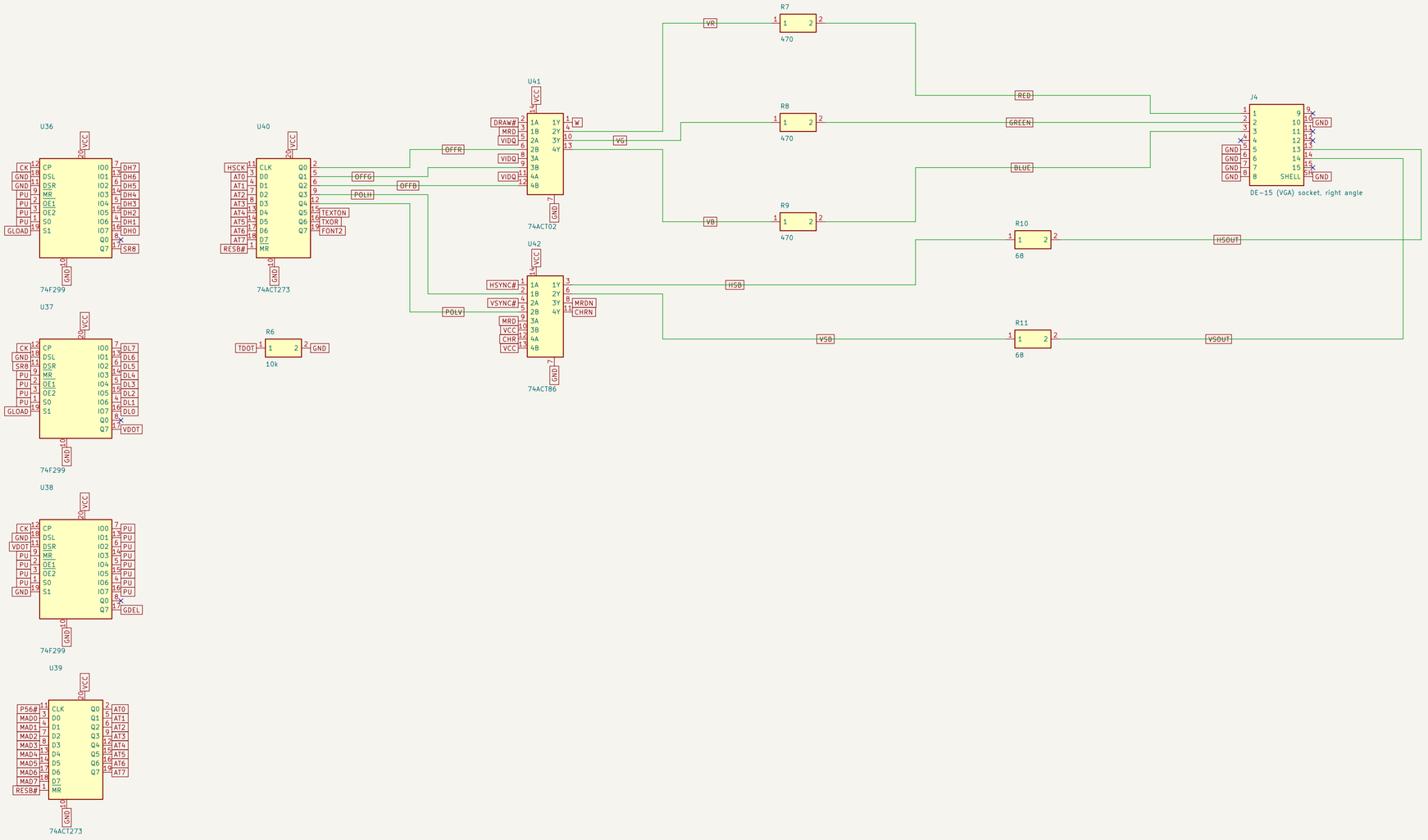
Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
Frame buffer: the address latches, the RAMs, the font

P32W

Sheet: /Frame buffer: the address latches, the RAMs, the font/
File: video-card-5.kicad_sch

Title: P32W VIDEO CARD

Size: A2	Date:	Rev:
KiCad E.D.A. 10.0.6		Id: 6/12



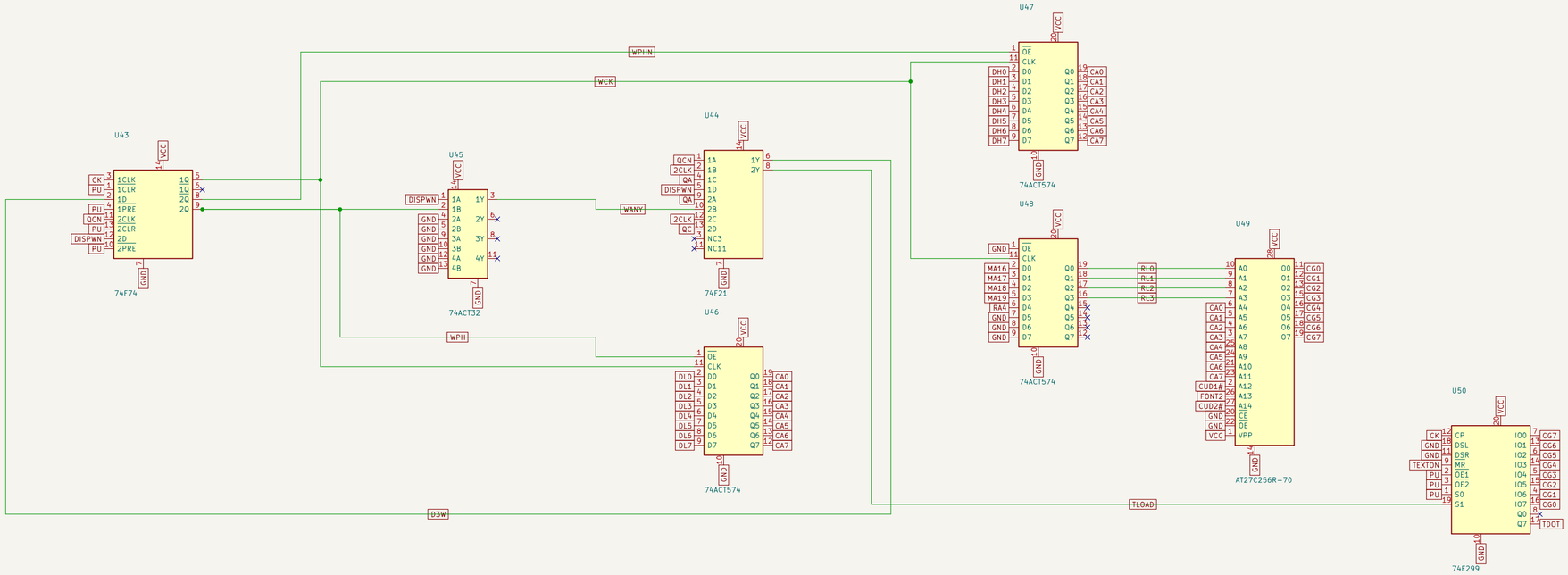
Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
Dots: the shift registers, the control register, VGA

P32W

Sheet: /Dots: the shift registers, the control register, VGA/
File: video-card-6.kicad_sch

Title: P32W VIDEO CARD

Size: A2	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 7/12



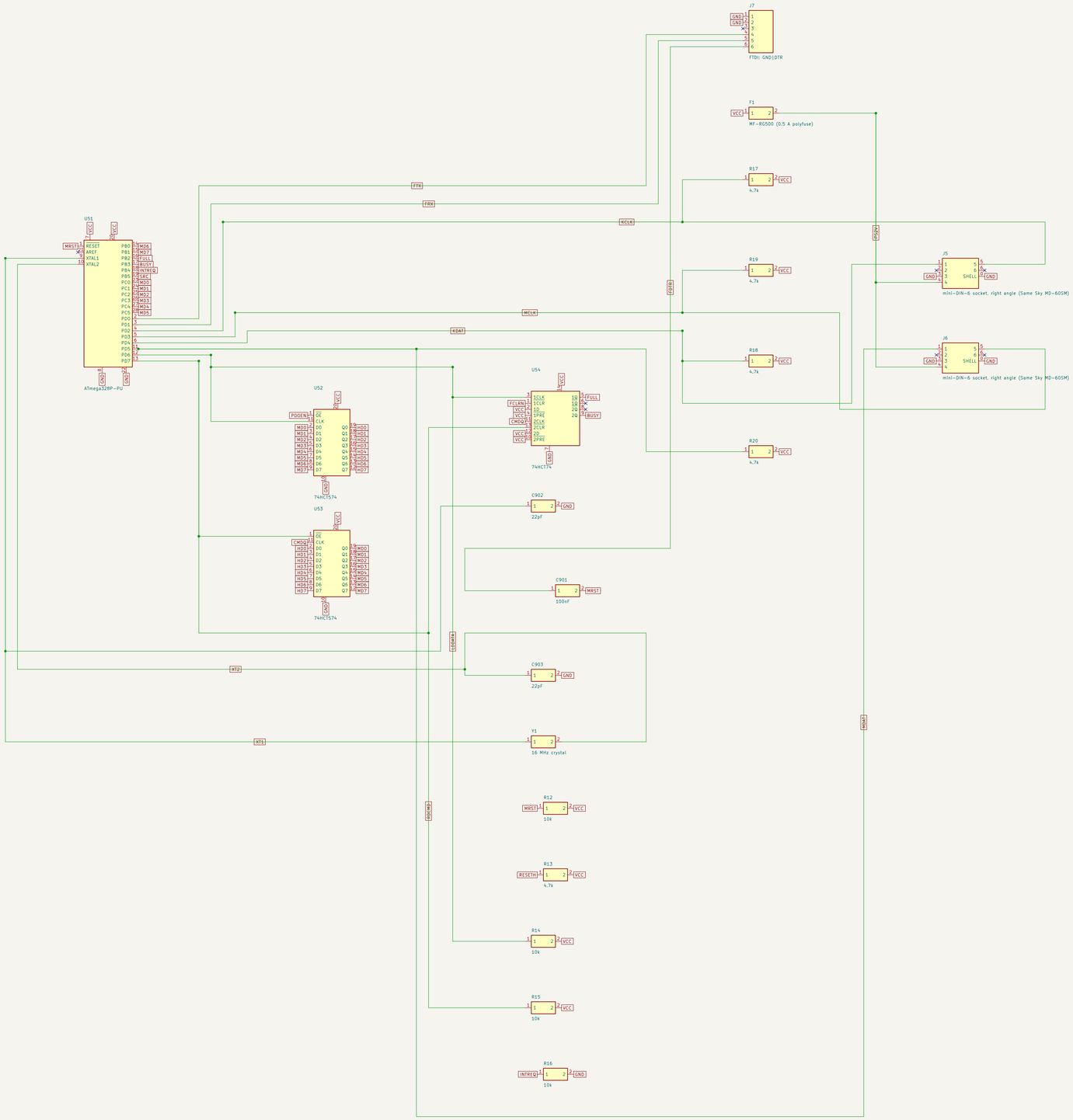
Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
Text method A: a character screen over the graphics (sockets, empty on the first build)

P32W

Sheet: /Text method A: a character screen over the graphics (sockets/
File: video-card-7.kicad_sch

Title: P32W VIDEO CARD

Size: A2	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 8/12



Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit

PS/2 keyboard and mouse

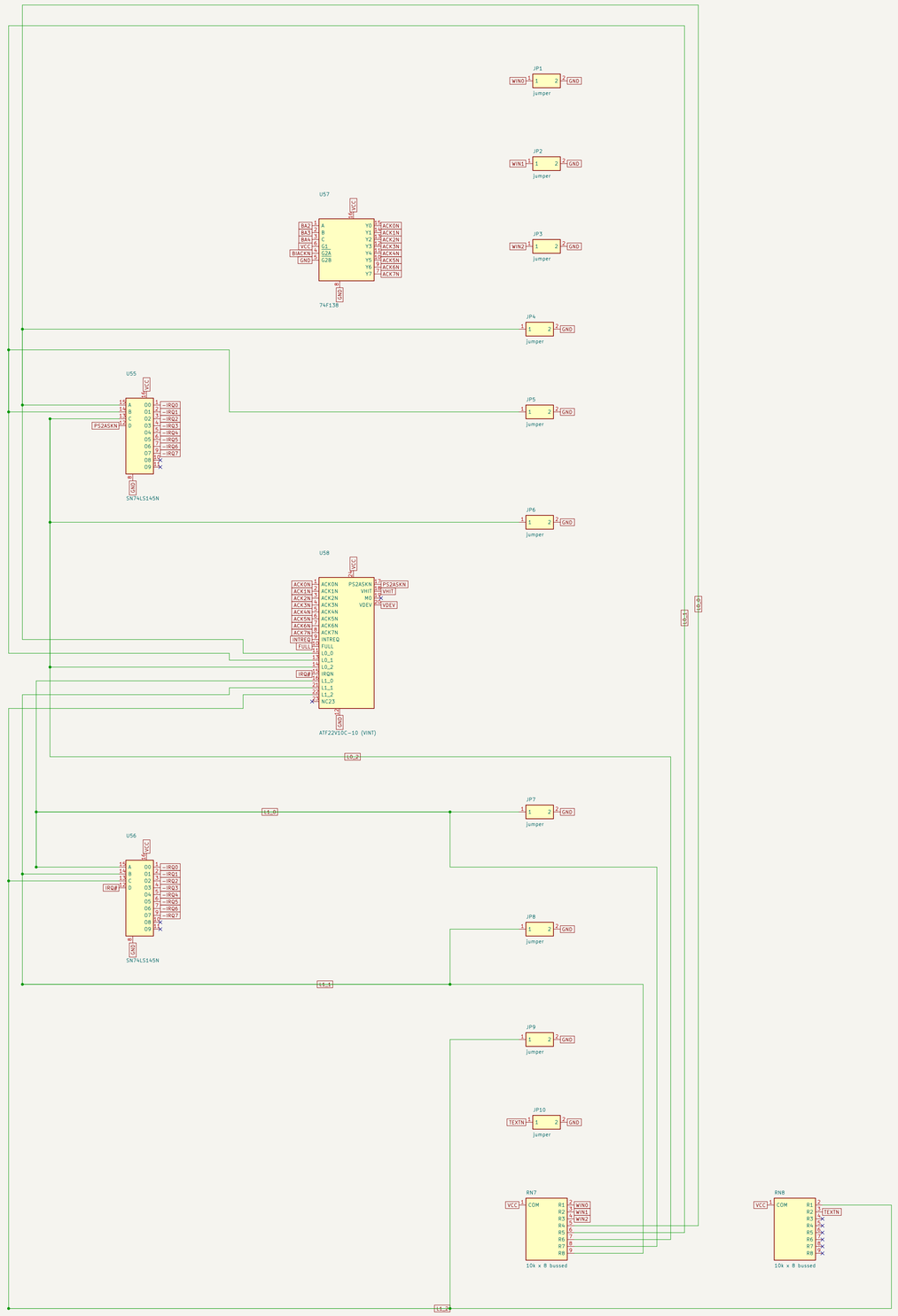
P32W

Sheet: /PS/2 keyboard and mouse/

File: video-card-B.kicad_sch

Title: P32W VIDEO CARD

Size: A1	Date:	Rev:
KiCad E.D.A. 10.0.6		Id: 9/12



Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit

Interrupts and the Jumpers

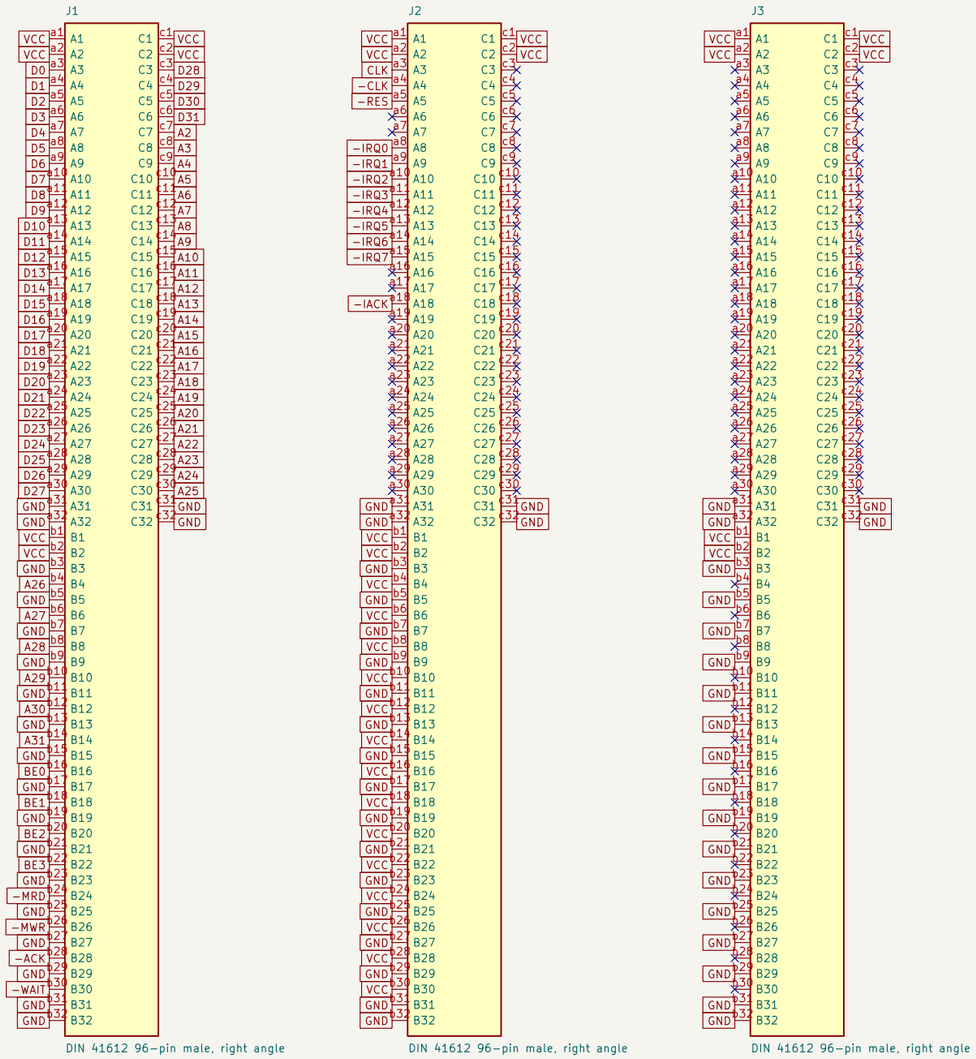
P32W

Sheet: /Interrupts and the Jumpers/

File: video-card-9.kicad_sch

Title: P32W VIDEO CARD

Size: A1	Date:	Rev:
KiCad E.D.A. 10.0.6		Id: 10/12



Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
Backplane connectors
P32W

Sheet: /Backplane connectors/
File: video-card-10.kicad_sch

Title: P32W VIDEO CARD

Size: A3	Date:	**Rev:**
KiCad E.D.A. 10.0.6		Id: 11/12

C904
VCC 1 1 2 2 GND
100nF

C905
VCC 1 1 2 2 GND
100nF

R21
VCC 1 1 2 2 PwrLED_A
1k

D1
PwrLED_A 2 A K 1 GND
LED 3mm green

C9
VCC 1 1 2 2 GND
100nF

C21
VCC 1 1 2 2 GND
100nF

C33
VCC 1 1 2 2 GND
100nF

C45
VCC 1 1 2 2 GND
100nF

C57
VCC 1 1 2 2 GND
100nF

C1
VCC 1 1 2 2 GND
100nF

C10
VCC 1 1 2 2 GND
100nF

C22
VCC 1 1 2 2 GND
100nF

C34
VCC 1 1 2 2 GND
100nF

C46
VCC 1 1 2 2 GND
100nF

C58
VCC 1 1 2 2 GND
100nF

C2
VCC 1 1 2 2 GND
100nF

C11
VCC 1 1 2 2 GND
100nF

C23
VCC 1 1 2 2 GND
100nF

C35
VCC 1 1 2 2 GND
100nF

C47
VCC 1 1 2 2 GND
100nF

C59
VCC 1 + 2 GND
10uF 16V

C3
VCC 1 1 2 2 GND
100nF

C12
VCC 1 1 2 2 GND
100nF

C24
VCC 1 1 2 2 GND
100nF

C36
VCC 1 1 2 2 GND
100nF

C48
VCC 1 1 2 2 GND
100nF

C4
VCC 1 1 2 2 GND
100nF

C13
VCC 1 1 2 2 GND
100nF

C25
VCC 1 1 2 2 GND
100nF

C37
VCC 1 1 2 2 GND
100nF

C49
VCC 1 1 2 2 GND
100nF

C5
VCC 1 1 2 2 GND
100nF

C14
VCC 1 1 2 2 GND
100nF

C26
VCC 1 1 2 2 GND
100nF

C38
VCC 1 1 2 2 GND
100nF

C50
VCC 1 1 2 2 GND
100nF

C6
VCC 1 1 2 2 GND
100nF

C15
VCC 1 1 2 2 GND
100nF

C27
VCC 1 1 2 2 GND
100nF

C39
VCC 1 1 2 2 GND
100nF

C51
VCC 1 1 2 2 GND
100nF

C7
VCC 1 1 2 2 GND
100nF

C16
VCC 1 1 2 2 GND
100nF

C28
VCC 1 1 2 2 GND
100nF

C40
VCC 1 1 2 2 GND
100nF

C52
VCC 1 1 2 2 GND
100nF

C8
VCC 1 1 2 2 GND
100nF

C17
VCC 1 1 2 2 GND
100nF

C29
VCC 1 1 2 2 GND
100nF

C41
VCC 1 1 2 2 GND
100nF

C53
VCC 1 1 2 2 GND
100nF

C18
VCC 1 1 2 2 GND
100nF

C30
VCC 1 1 2 2 GND
100nF

C42
VCC 1 1 2 2 GND
100nF

C54
VCC 1 1 2 2 GND
100nF

C19
VCC 1 1 2 2 GND
100nF

C31
VCC 1 1 2 2 GND
100nF

C43
VCC 1 1 2 2 GND
100nF

C55
VCC 1 1 2 2 GND
100nF

C20
VCC 1 1 2 2 GND
100nF

C32
VCC 1 1 2 2 GND
100nF

C44
VCC 1 1 2 2 GND
100nF

C56
VCC 1 1 2 2 GND
100nF

PWR_FLAG
VCC

PWR_FLAG
GND

Generated by generators/p32kicad_sch.py from generators/card_video.py — do not edit
Power: decoupling and bulk capacitors
P32W

Sheet: /Power: decoupling and bulk capacitors/	
File: video-card-1.kicad_sch	
Title: P32W VIDEO CARD	
Size: A1	Date:
KiCad E.D.A. 10.0.6	**Rev:** Id: 12/12