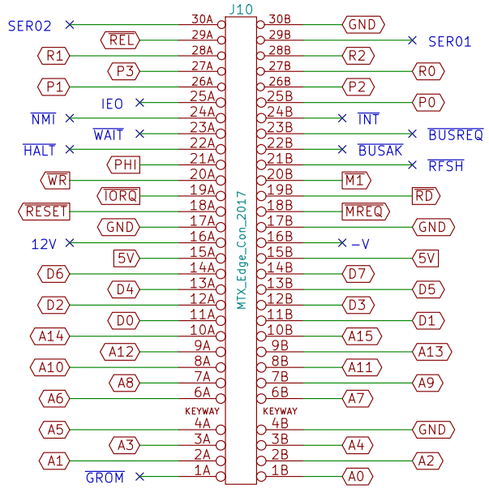
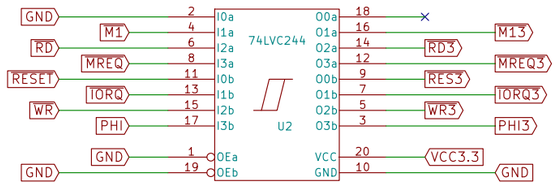
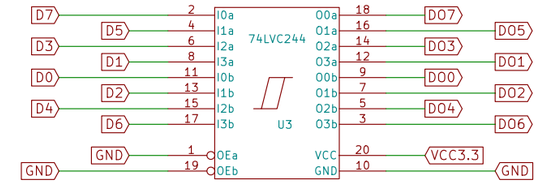
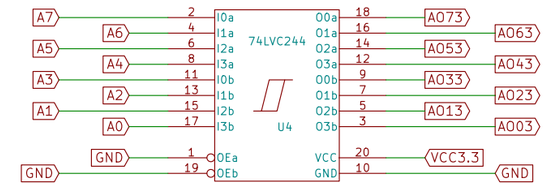
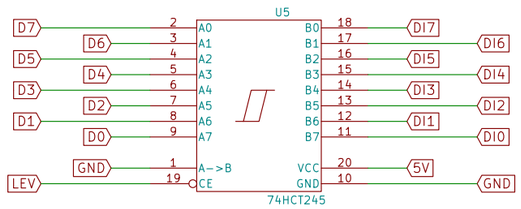
Using Board Edge Connector Footprint

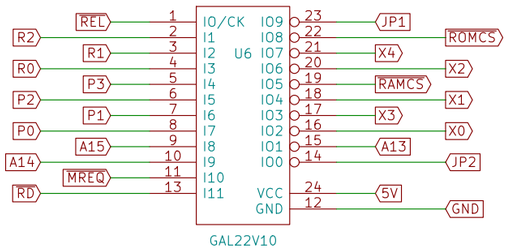


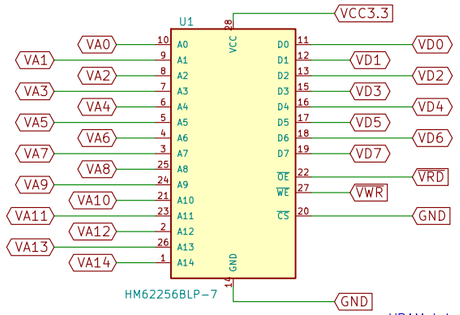




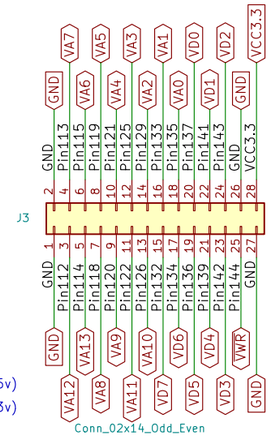


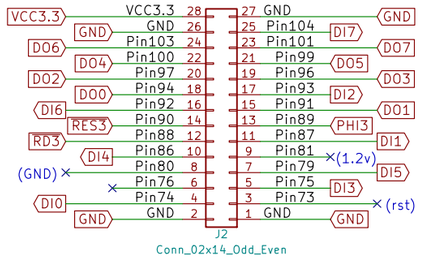


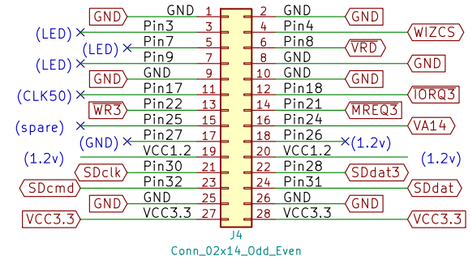




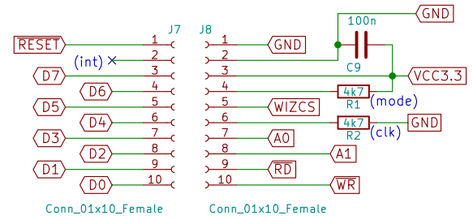
DIx are Inputs **TO** the MTX **FROM** the FPGA (3v to 5v)
DOx are Outputs **FROM** the MTX **TO** the FPGA (5v to 3v)



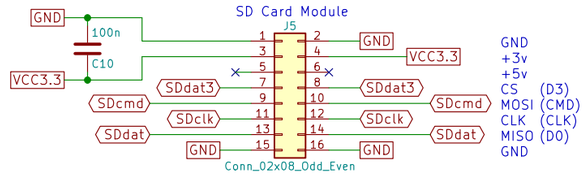




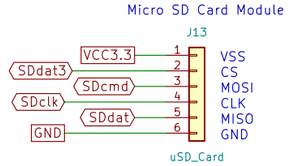
WIZnet Module

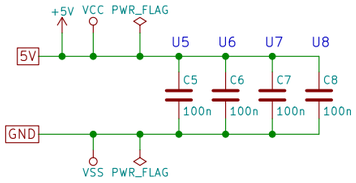


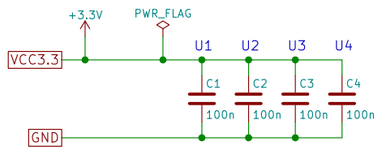
SD Card Module

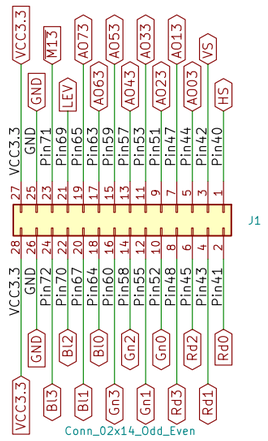


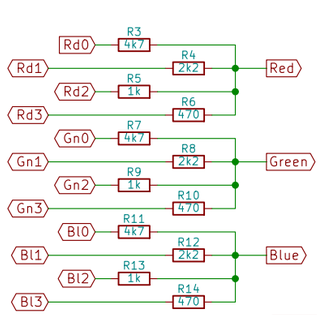
Micro SD Card Module

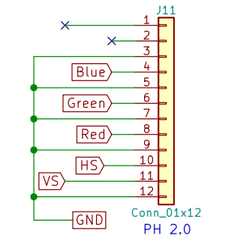


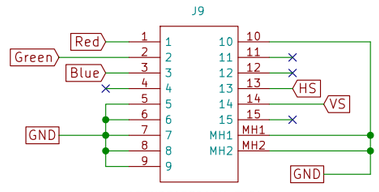


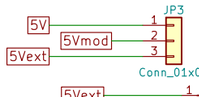


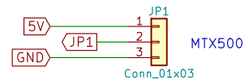


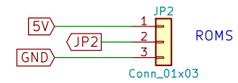












Design : Martin Allcorn
Engineering : Dave Stevenson

Sheet: MFX_notes
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File: MFX.sch

Title: *Memotech Multi Function eXpansion Card (MFX)*

Size: A3	Date:	**Rev: 0.5**
KiCad E.D.A. kicad 4.0.7		Id: 1/2

NOTES

Change Log

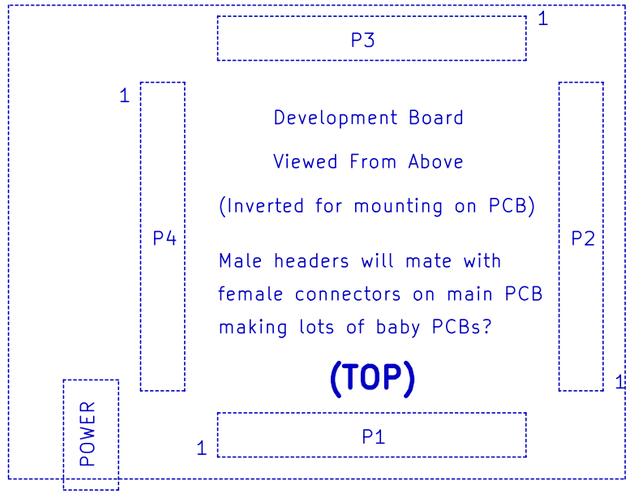
Ver 0.1 : Initial schematic based on prototype development

Ver 0.2 : Changes for possible Speculator addition
- MREQ on J0/J10 to one of the spare LVC244 input (pin 8)
- 3v downshifted MREQ LVC244 (pin 12) to pin 21 on the P4 FPGA header
- Pin 24 on the P4 FPGA header to A14 on the VRAM
- Also removed HD15 VGA connector
- Deleted 1.2v connections from FPGA board (J4 Pins 19 & 20)
- Sheet 2 created to move notes off main schematic

Ver 0.3 : PCB Size to be changed to full width of the available space in case
- Restored HD15 VGA connector as will now mount on PCB
- External power connection for FPGA will now mate with PCB
- Added external power source barrel jack connector to PCB
- Deleted PCB mounting holes – not needed for internal only PCB
- Added dual SD & uSD Card Modules

Ver 0.4 : Modified to use SD Card modules with on board passives (R &Cs)

Ver 0.4 : Layout and dimension changes



Pin assignment changes during routing

P	Signal	Blocking	PCB
1	/MI33	Pin 2	Pin 23
1	/LEV	Pin 4	Pin 21
1	AO03	Pin 6	Pin 5
1	AO13	Pin 8	Pin 7
1	AO23	Pin 10	Pin 9
1	AO33	Pin 12	Pin 11
1	AO43	Pin 14	Pin 13
1	AO53	Pin 16	Pin 15
1	AO63	Pin 18	Pin 17
1	AO73	Pin 20	Pin 19
1	RD0	Pin 1	Pin 2
1	RD1	Pin 3	Pin 4
1	RD2	Pin 5	Pin 6
1	RD3	Pin 7	Pin 8
1	GN0	Pin 9	Pin 10
1	GN1	Pin 11	Pin 12
1	GN2	Pin 13	Pin 14
1	GN3	Pin15	Pin 16
1	BL0	Pin 17	Pin 18
1	BL1	Pin 19	Pin 20
1	BL2	Pin 21	Pin 22
1	BL3	Pin23	Pin 24

PCB Edge connector optimised for EDAC 345-060-560-201 connectors with 0.64mm x 9.91 mm tails

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File: MFX_notes.sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 4.0.7		Id: 2/2