

Monster Floppy Disk Controller is an open source hardware project
Documentation and design files: <https://github.com/skiselev/monster-fdc>
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Designed by Sergey Kiselev

Sheet:

File: isa_monster_fdc.kicad_pcb

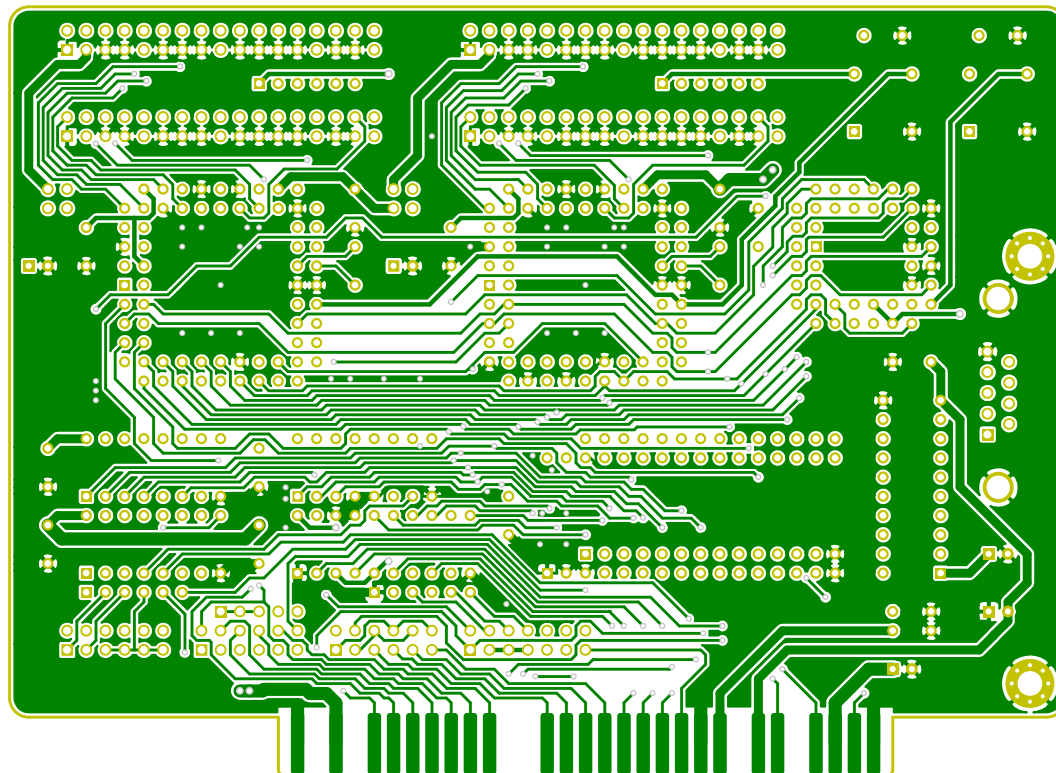
Title: Monster Floppy Disk Controller

Size: USLetter Date: 2021-12-02

KiCad E.D.A. pcbnew (5.1.8)-1

Rev: 1.0

Id: 1/1



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WARNING:
Install 1P5-1P9 jumpers
only with 5V floppy drives
that are powered by pin 5

1P5 - Sec. FDC IRQ Configuration
1P5.1 - ON: IRD0
1P5.2 - ON: IRD1
1P5.3 - ON: IRD2
1P5.4 - ON: IRD3
1P5.5 - ON: IRD4
1P5.6 - ON: IRD5
Set only one of 1P5.x jumpers

1P7 - Sec. FDC DMA Configuration
1P7.1 and 1P7.2 - ON: DMA Channel 2
1P7.3 and 1P7.4 - ON: DMA Channel 1
1P7.5 and 1P7.6 - ON: DMA Channel 0
Set only one pair of 1P7.1-1P7.6 jumpers

1P1 - I/O Ports Configuration
1P1.1 - Enable Primary FDC at 0x2F0
1P1.2 - Enable Secondary FDC at 0x2F0
1P1.3 - Enable IARL at 0x2B8 (COM1)
1P1.4 - Enable IARL at 0x2B8 (COM2)

1P4 - IARL IRQ Configuration (COM1)
1P4.1 - ON: IRD0 (COM1)
1P4.2 - ON: IRD1 (COM1)
1P4.3 - ON: IRD2 (COM1)
1P4.4 - ON: IRD3 (COM1)

1P1.5 - Enable IARL at 0x2B8 (COM1)
1P1.6 - Enable IARL at 0x2B8 (COM2)
1P1.7 - Enable IARL at 0x2B8 (COM3)
1P1.8 - Enable IARL at 0x2B8 (COM4)
Set only one of 1P1.7 - 1P1.8 jumpers

1P4.5 - ON: IRD4 (COM1)
1P4.6 - ON: IRD5 (COM1)
1P4.7 - ON: IRD6 (COM1)
1P4.8 - ON: IRD7 (COM1)

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Version 1.0
Monster FDC



1P2.5 - 1P2.4 - BIOS Extension ROM Address
1P2.5 1P2.4 Address
OFF OFF 0xC0000
OFF OFF 0xC0000
OFF OFF 0xC0000
OFF OFF 0xC0000
OFF OFF 0xC0000
OFF OFF 0xC0000
OFF OFF 0xC0000
OFF OFF 0xC0000

1P2.1 - BIOS Extension ROM Configuration
1P2.1 - ON: BIOS Extension ROM
1P2.2 and 1P2.3 - ON: BIOS Extension ROM (32K)
1P2.4 and 1P2.5 - ON: BIOS Extension ROM (64K)
1P2.6 and 1P2.7 - ON: BIOS Extension ROM (128K)
1P2.8 and 1P2.9 - ON: BIOS Extension ROM (256K)
1P2.10 and 1P2.11 - ON: BIOS Extension ROM (512K)

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