

<https://github.com/xtremespb/frank>

Mikhail Matveev

Sheet: /

File: turbofrank.kicad_sch

Title: TurboFRANK

Size: A4

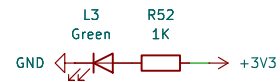
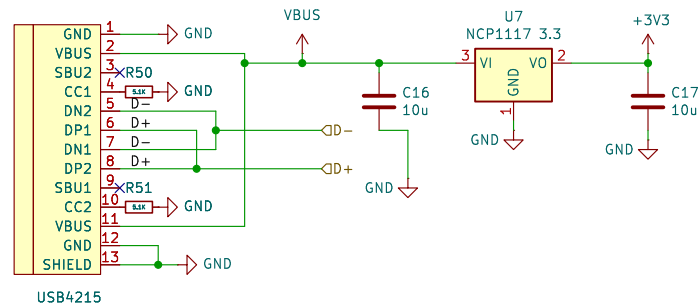
Date: 2025-02-02

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Rev: 1.01

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The power source is USB-C connector.
The NCP1117 transforms +5V to +3V3.



The LED indicates +3V power availability.
Usually it's green, but you decide ;-)

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Sheet: /Power/

File: power.kicad_sch

Title: TurboFRANK

Size: A4

Date: 2025-02-02

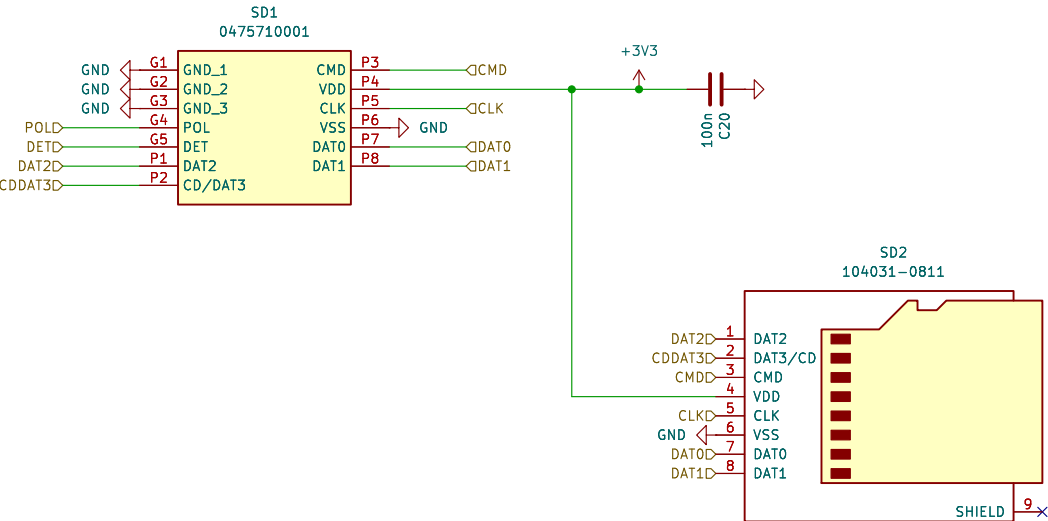
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Short TF Card slot is used to save some space on the PCB.



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Sheet: /Micro SD/

File: sd.kicad_sch

Title: TurboFRANK

Size: A4

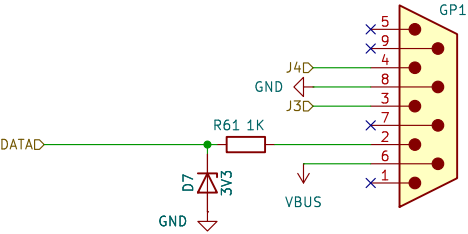
Date: 2025-02-02

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Id: 5/19

The gamepad uses standard DB9 male socket.



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Mikhail Matveev

Sheet: /Gamepad 1/

File: gamepad.kicad_sch

Title: TurboFRANK

Size: A4

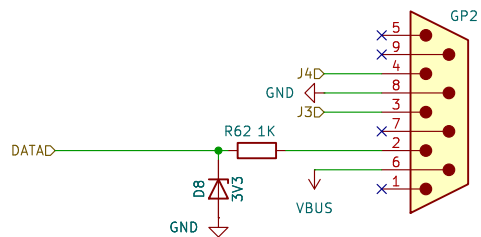
Date: 2025-02-02

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Id: 7/19

The gamepad uses standard DB9 male socket.



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Sheet: /Gamepad 2/

File: gamepad.kicad_sch

Title: TurboFRANK

Size: A4

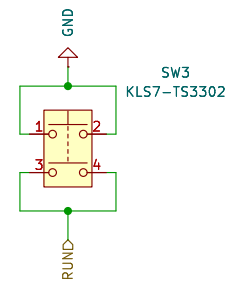
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This button connects RUN pin of RP2040 and GND.



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Sheet: /Reset/

File: reset.kicad_sch

Title: TurboFRANK

Size: A4

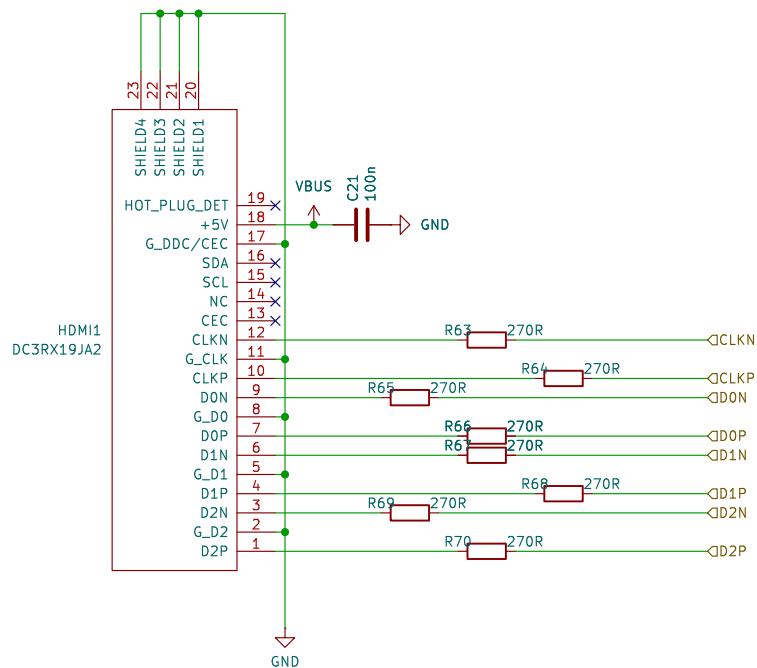
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HDMI video output requires the resistors to be close to the HDMI socket in order to work properly.



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Sheet: /HDMI/

File: hdmi.kicad_sch

Title: TurboFRANK

Size: A4

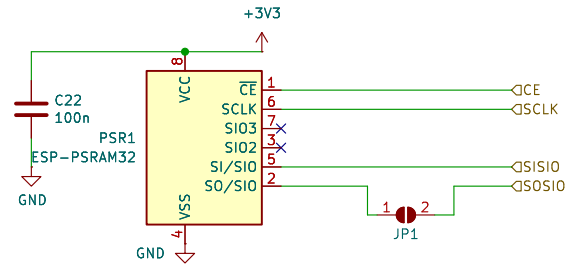
Date: 2025-02-02

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As PSRAM is optional, you need to solder the jumper
if you are going to use it.



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Sheet: /PSRAM/

File: psram.kicad_sch

Title: TurboFRANK

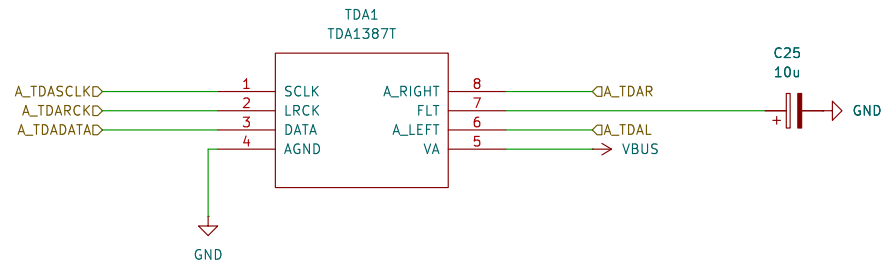
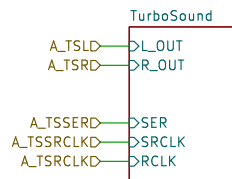
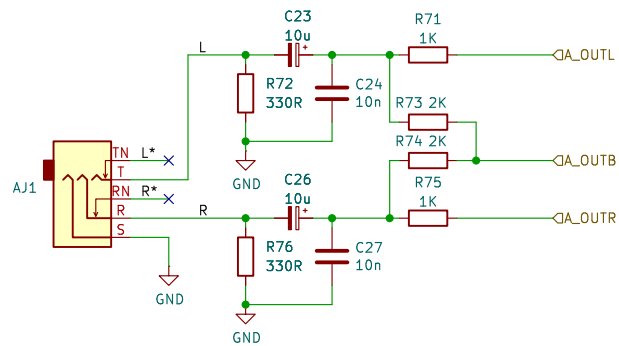
Size: A4

Date: 2025-02-02

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Mikhail Matveev

Sheet: /Audio Out/

File: audio.kicad_sch

Title: TurboFRANK

Size: A4

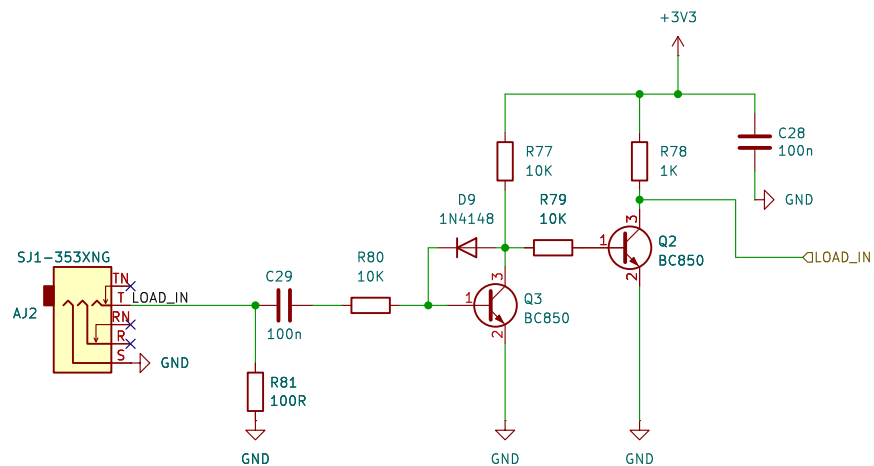
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This schematics is used to load data from external audio source, e.g. tape.



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Sheet: /Tape In/

File: tape.kicad_sch

Title: TurboFRANK

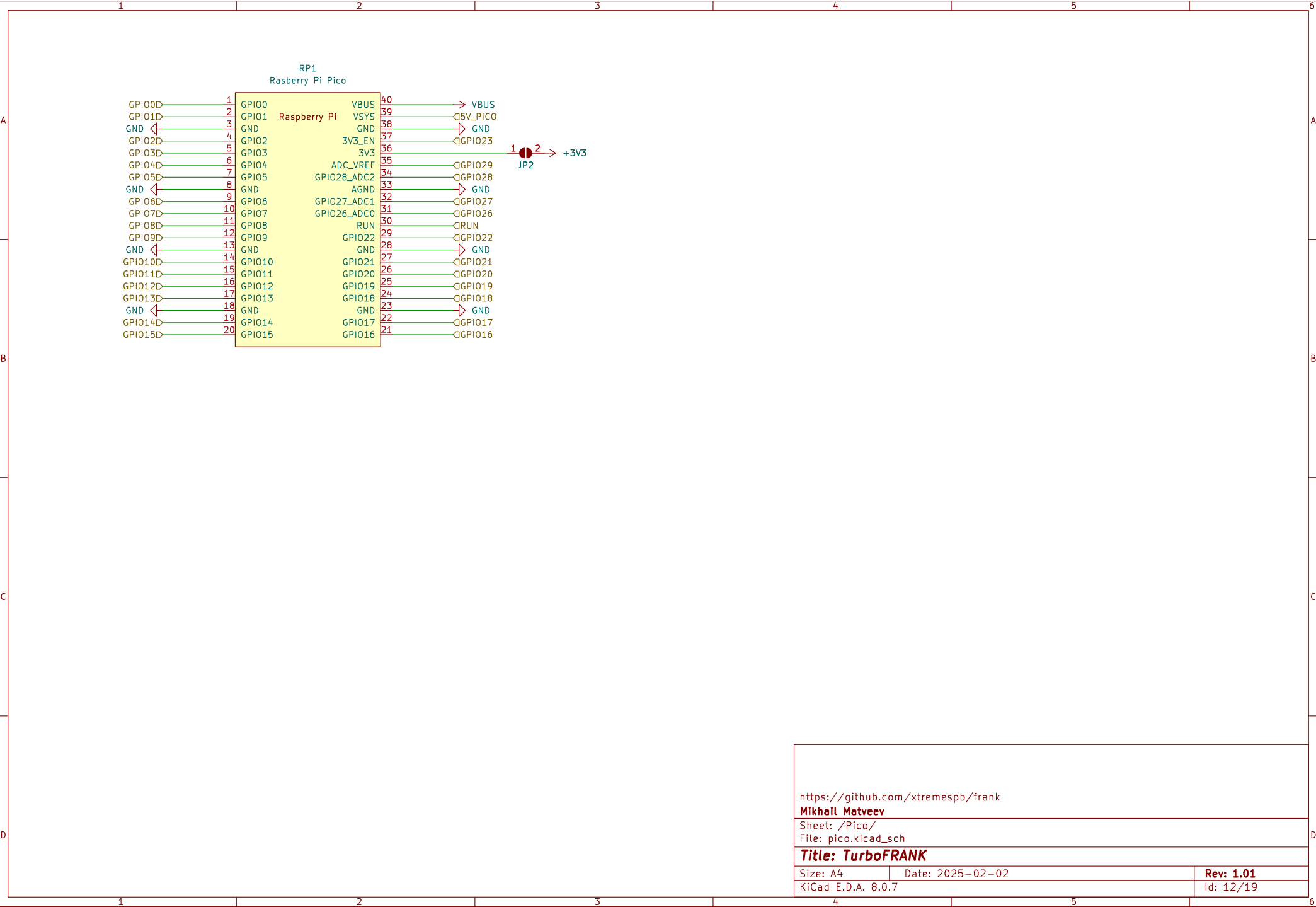
Size: A4

Date: 2025-02-02

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Id: 12/19



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Mikhail Matveev

Sheet: /Pico/

File: pico.kicad_sch

Title: TurboFRANK

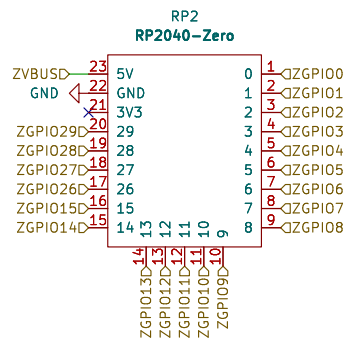
Size: A4

Date: 2025-02-02

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Mikhail Matveev

Sheet: /Zero/

File: zero.kicad_sch

Title: TurboFRANK

Size: A4

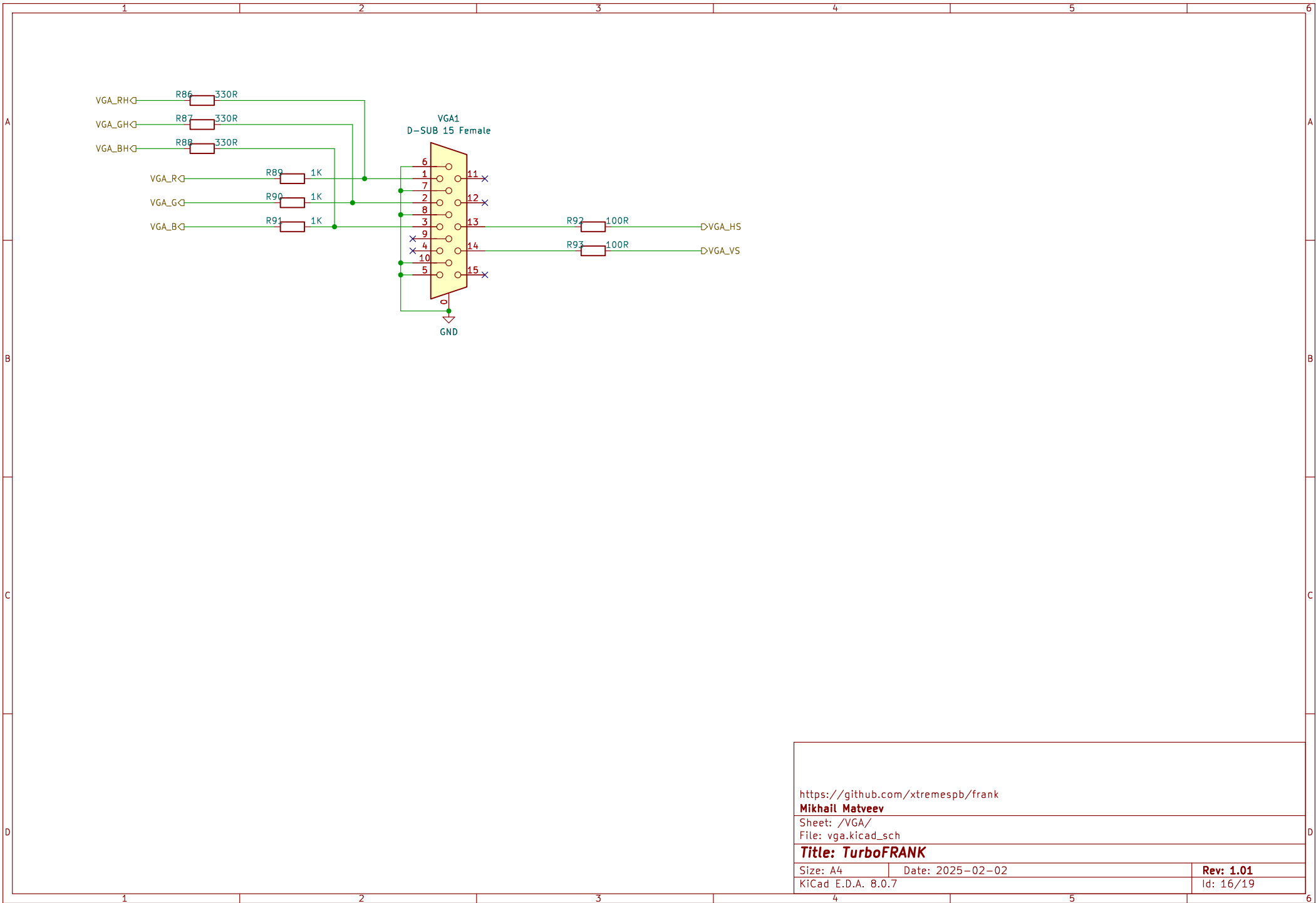
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Sheet: /VGA/

File: vga.kicad_sch

Title: TurboFRANK

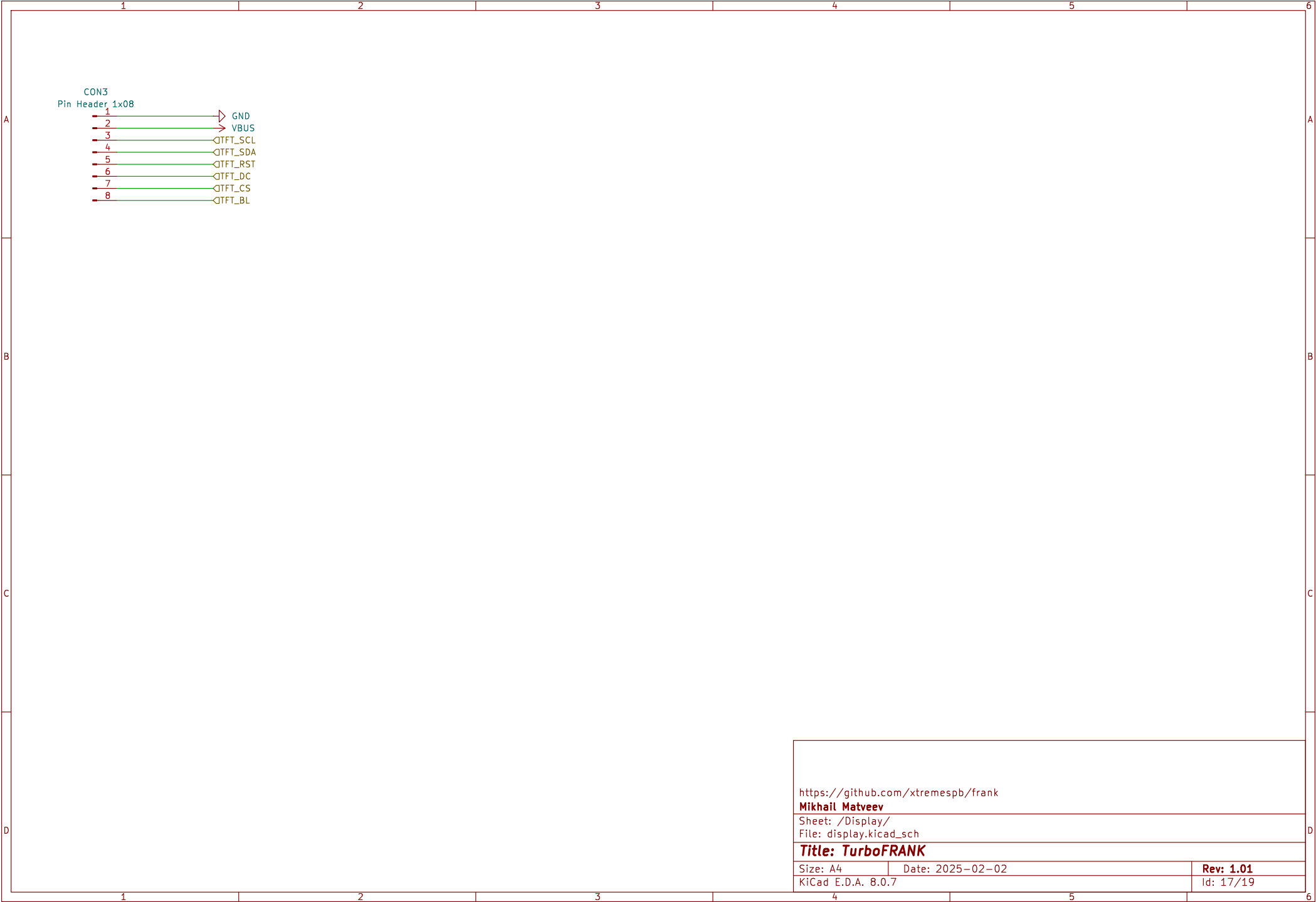
Size: A4

Date: 2025-02-02

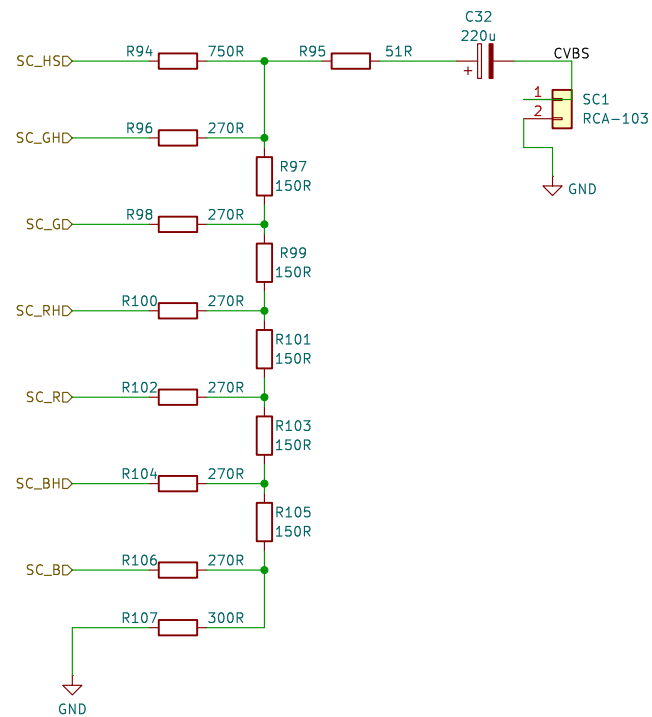
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Mikhail Matveev		
Sheet: /Display/		
File: display.kicad_sch		
Title: TurboFRANK		
Size: A4	Date: 2025-02-02	Rev: 1.01
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Mikhail Matveev

Sheet: /Composite/

File: composite.kicad_sch

Title: TurboFRANK

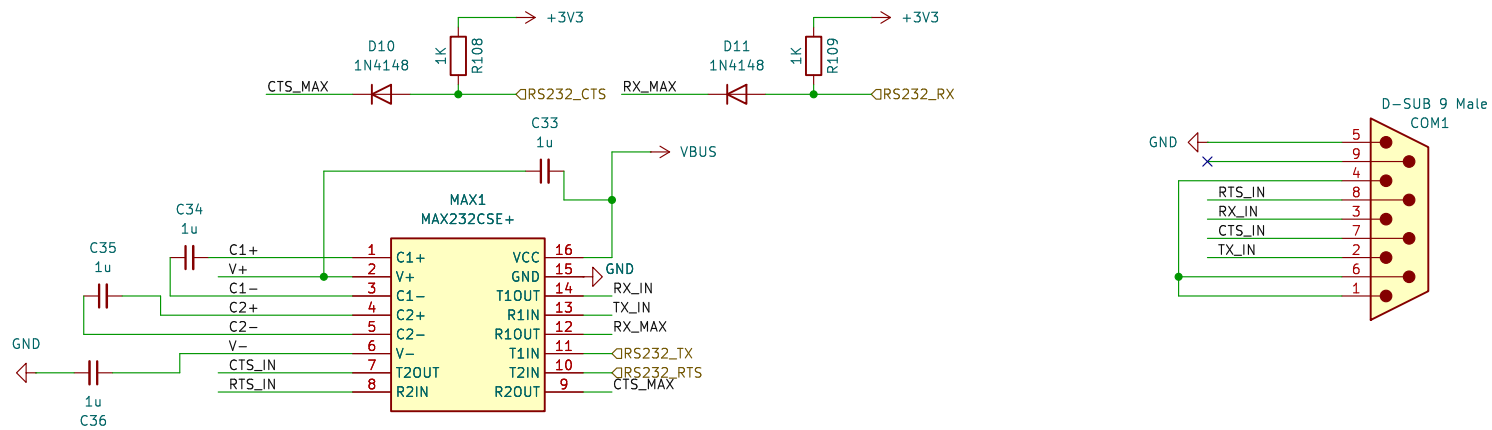
Size: A4

Date: 2025-02-02

Rev: 1.01

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Mikhail Matveev

Sheet: /RS232/

File: rs232.kicad_sch

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Rev: 1.01

KiCad E.D.A. 8.0.7

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