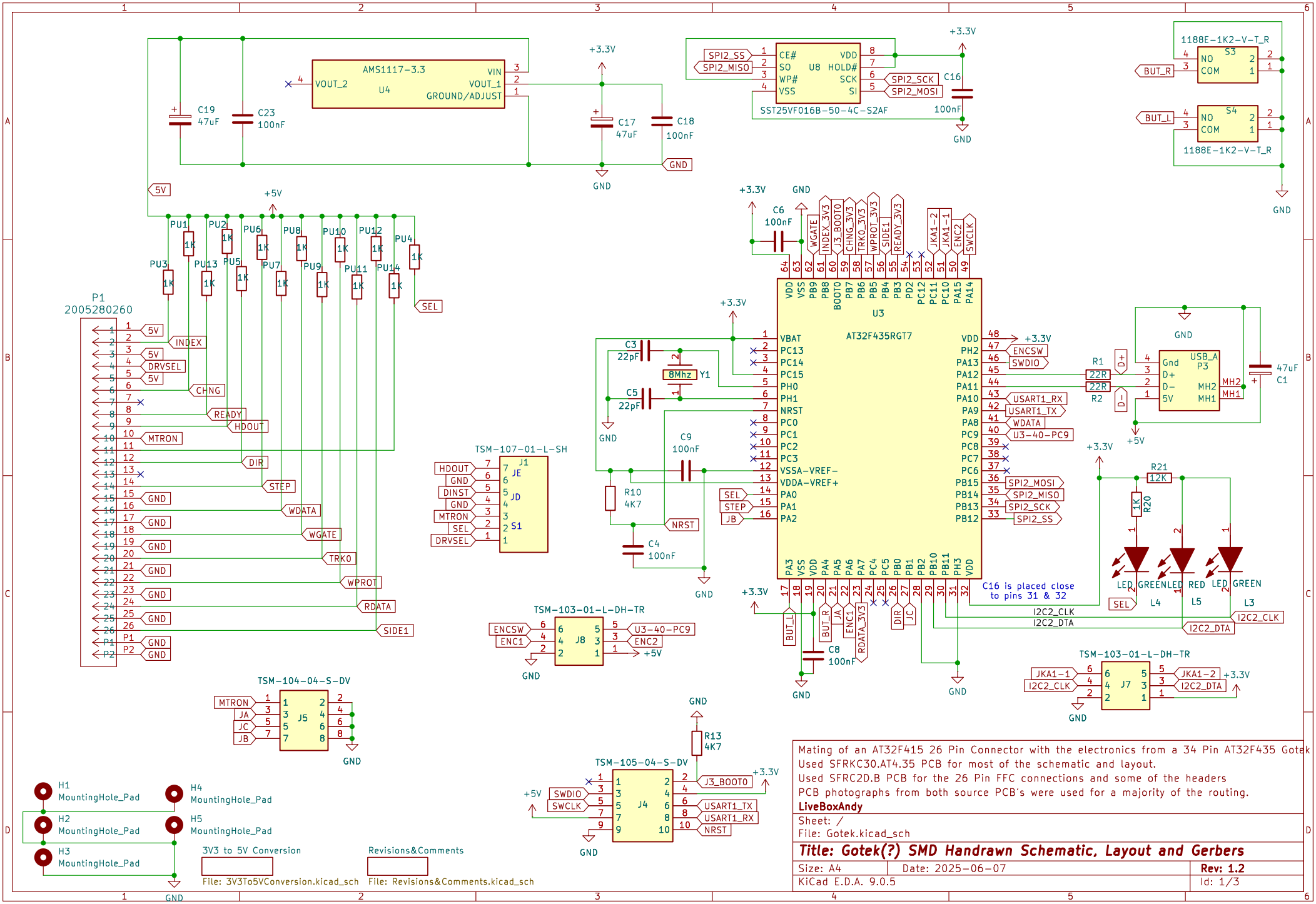

Mating of an AT32F415 26 Pin Connector with the electronics from a 34 Pin AT32F435 Gotek
Used SFRKC30.AT4.35 PCB for most of the schematic and layout.
Used SFRC2D.B PCB for the 26 Pin FFC connections and some of the headers
PCB photographs from both source PCB's were used for a majority of the routing.

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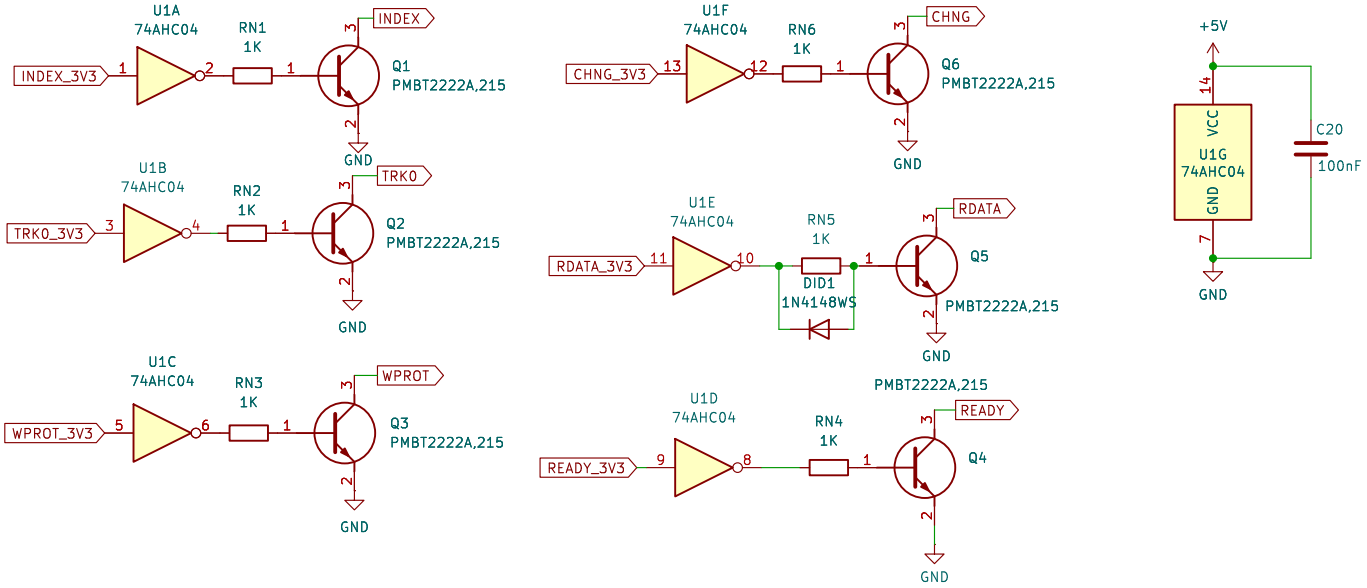
Sheet: /
File: Gotek.kicad_sch

Title: Gotek(?) SMD Handrawn Schematic, Layout and Gerbers

Size: A4	Date: 2025-06-07	Rev: 1.2
KiCad E.D.A. 9.0.5		Id: 1/3



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Sheet: /3V3 to 5V Conversion/
File: 3V3To5VConversion.kicad_sch

Title: Gotek(?) SMD Handrawn Schematic, Layout and Gerbers

Size: A4	Date: 2025-06-07	**Rev: 1.2**
KiCad E.D.A. 9.0.5		Id: 2/3

Initial Release V0.0
Initial schematic and gerbers for a Gotek(?) compatible with an Artery AT32F435RGT7 chip and a 26 Pin FFC connector using SMD components.
Used SFRKC30.AT4.35 PCB for most of the schematic and layout but used SFRC2D.B PCB for the 26 Pin FFC connections.
Used photographs and a multimeter along with removing U1 and U3 on the SFRKC30.AT4.35 to get to the traces underneath.
Where possible I followed the original PCB routing of the SFRKC30.AT4.35 but Kicad has some different rules for trace widths (between pins 5&6 of U8, which isn't fitted for FlashFloppy).
Using SMD components required a few more routing changes but electrically it is still good. What a pain in the ass to find SMD parts that don't cost a fortune and have Kicad mod and sym files.
Works as a replacement for the floppy in a TDS3052 Oscilloscope. Just needs a slim case (13mm)

Revision 1.0
Initial drawings and schematics using the components and values from the original boards. Where possible SMT components were used. Did not fit the EEPROM as it is not used by the flashfloppy firmware.

Revision 1.1
Removed L3 and Changed R21 to 12K to reduce LED brightness.

Revision 1.2
Changed vertical headers to Samtec LoProfile to fit within a 13mm High Case.
Combined some separate headers together for better physical strength.
The signal in the header location has not changed in that the physical locations on the board for JA, JB , JC, MTRON etc have not changed.
J1 7x1 header contains JD, JE, S1 and MO1.
J4 5x2 header contains BOOT0, SWDIO, SWCLK, USART_TX1, USART_RX1, NRST, 5V, 3V3 and Gnd.
J5 4x2 header contains MTRON, JA, JC and JB.
J7 3x2 header contains JKA1, JKA2, I2C2_CLK, I2C2_DTA, 3V3 and Gnd.
J8 3x2 header contains Encoder Switch, U3-40, ENC1, ENC2, 5V and Gnd.

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LiveBoxAndy

Sheet: /Revisions&Comments/
File: Revisions&Comments.kicad_sch

Title: Gotek(?) SMD Handrawn Schematic, Layout and Gerbers

Size: A4	Date: 2025-06-07	**Rev: 1.2**
KiCad E.D.A. 9.0.5		Id: 3/3