APA102-2020 LEDs HDD Clock V3.0 LED Board This is the schematic for the LED board of my HDD Persistence of Vision clock. IR Reflective Sensor Main improvements over V2.0: 1. LEDs changed to APA102-2020 from WS2812 These LEDs are capable of 25x faster transfer speeds.
The 2020 package is 60% smaller allowing me to place many more in the same space. 2. On-board PCB temperature sensor.

-12C communication. Sensing board temperature. I2C Board Temp Sensor 3. Wires elimintated from assembly -Connections to the driver board are made with spring loaded SMT(pogo) pins. Connections to Driver Board File: HDD Clock V3.0_LED Board.kicad_sch Title: LED Board Main Page Size: A4 Date: 02-21-2022 Rev: 3.0 KiCad E.D.A. kicad (6.0.1) ld: 1/6









