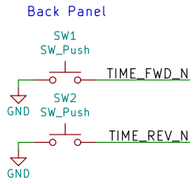
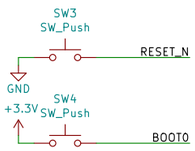
Tactile Pushbuttons

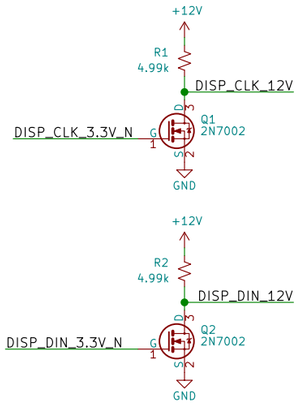
Back Panel



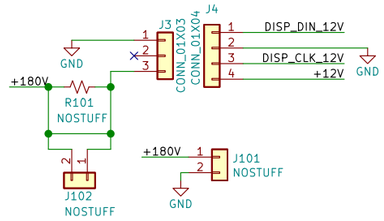
Development Use



3.3V –> 12V Level Shifters



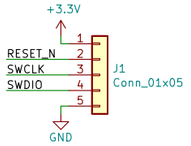
Display Module Connectors



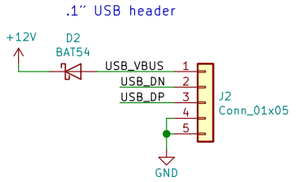
Test points for measuring 180V output power

Programming/Development Connectors

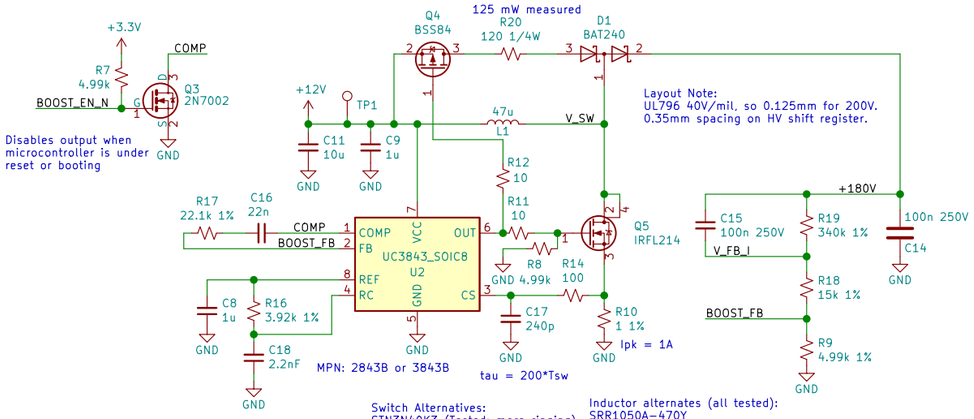
.1" programming header



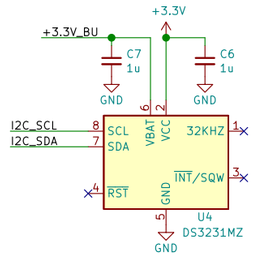
.1" USB header



12V –> 180V Boost Converter

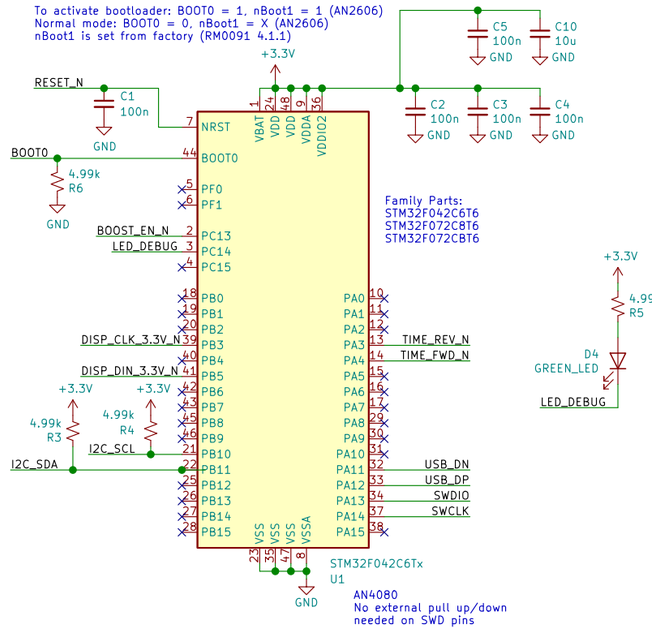


Temperature Compensated Real Time Clock



Microcontroller

To activate bootloader: BOOT0 = 1, nBoot1 = 1 (AN2606)
Normal mode: BOOT0 = 0, nBoot1 = X (AN2606)
nBoot1 is set from factory (RM0091 4.1.1)

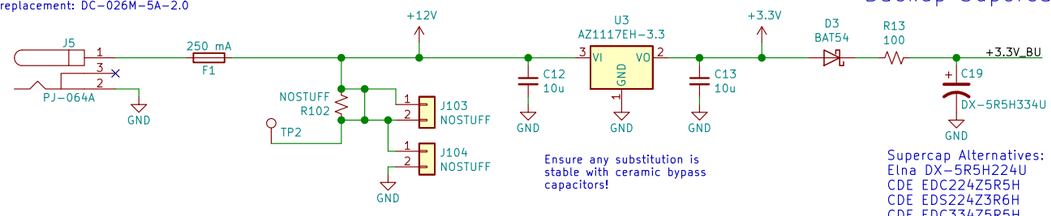


Power Connector

Possible replacement: DC-026M-5A-2.0

12V –> 3.3V Linear Regulator

Backup Supercap



Test points to measure 12V power consumption

Ensure any substitution is stable with ceramic bypass capacitors!

Supercap Alternatives:
Elna DX-5R5H224U
CDE EDC224Z5R5H
CDE EDS224Z3R6H
CDE EDC334Z5R5H

Gabe Buckmaster

Sheet: /
File: control_module.sch

Title: Nixie Tube Clock Control Module

Size: A3	Date: 2020-05-20	**Rev:**
KiCad E.D.A. kicad (5.1.5-0-10_14)		Id: 1/1