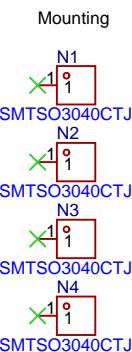
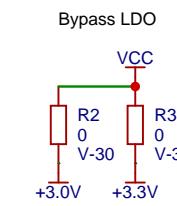
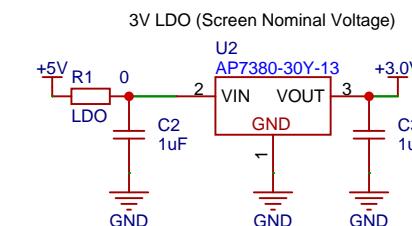
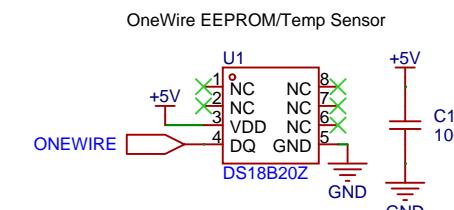
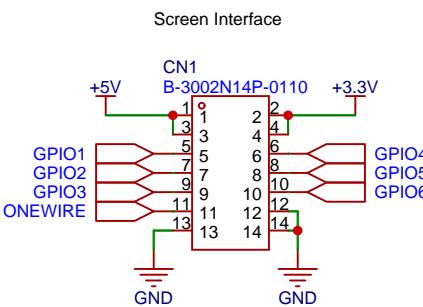
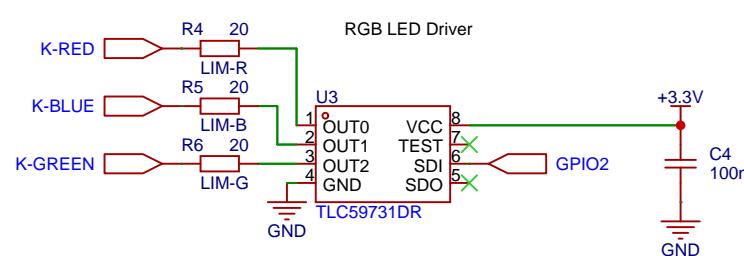


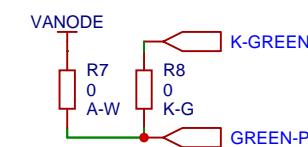
Access Control Core - RGB Screen
 Screen daughterboard based on NHD 128x64 RGB COG Screen
 NHD-C12864DA-FSRGB-FBW-3V3
 NHD-C12864DA-FSW-FBW-3V3
 Standard wire interface for other screens
 Exposes 6 raw GPIO, no designated assignments
 Allows for SPI, I²C, or UART based on what's needed
 5v, 3.3v rails
 OneWire connection for EEPROM
 Tells Core how to treat the IO, what kind of screen, etc.



Schematic Page	Interfaces	Page Number	1
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware	Total Pages	3
Version	3.0.0	Access Control Core RGB Screen Add-On	
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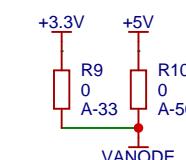


Green Cathode or Anode
For RGB vs White Backlight

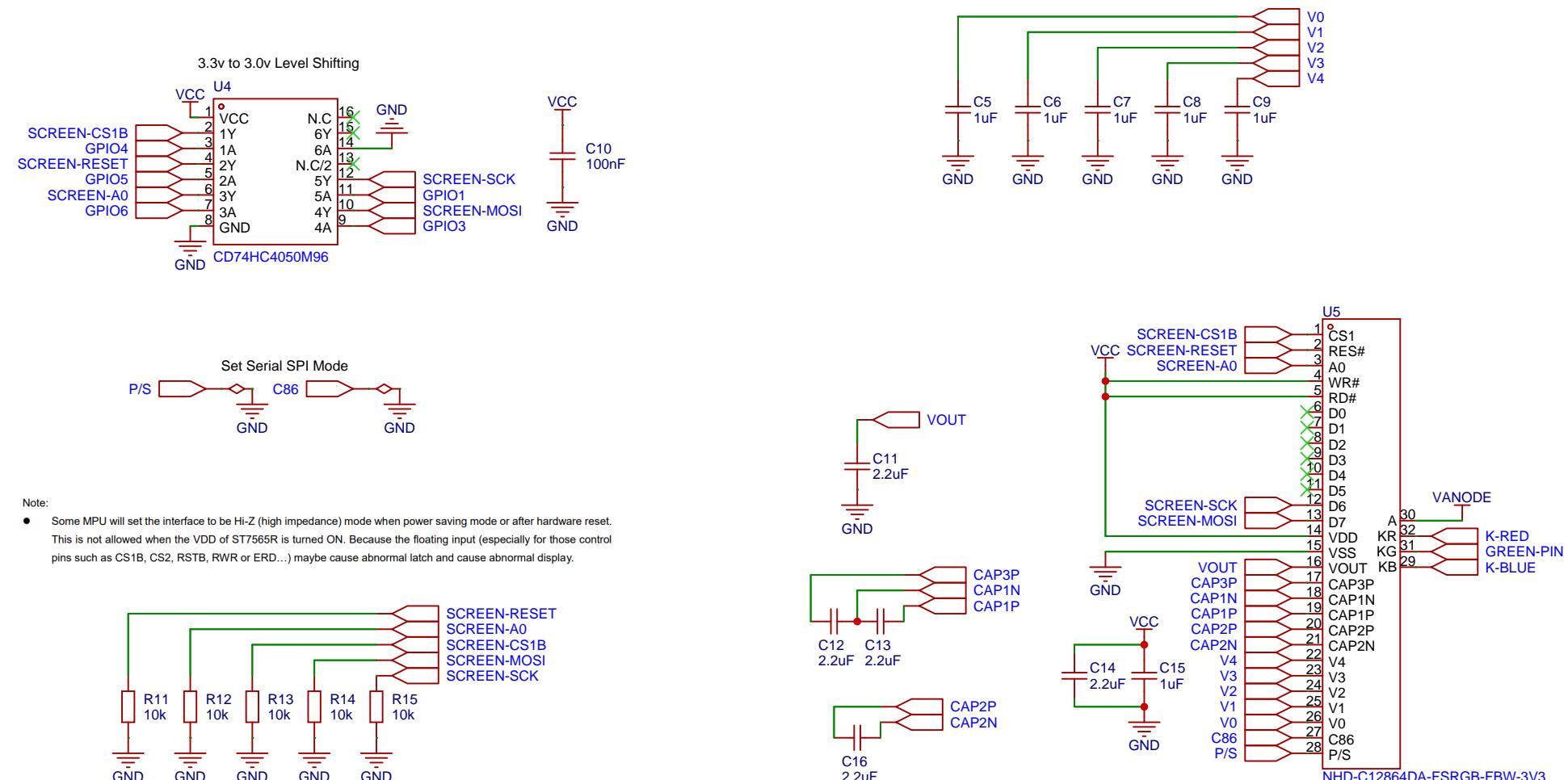


When running a screen with white backlight,
RED Cathode becomes the backlight cathode.

Anode Voltage Select



Schematic Page	Backlighting	Page Number	2
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware	Total Pages	3
Version	3.0.0	Access Control Core RGB Screen Add-On	
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Schematic Page	Screen	Page Number
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware	Total Pages
Version	3.0.0	3
RIT SHED	Access Control Core RGB Screen Add-On	3