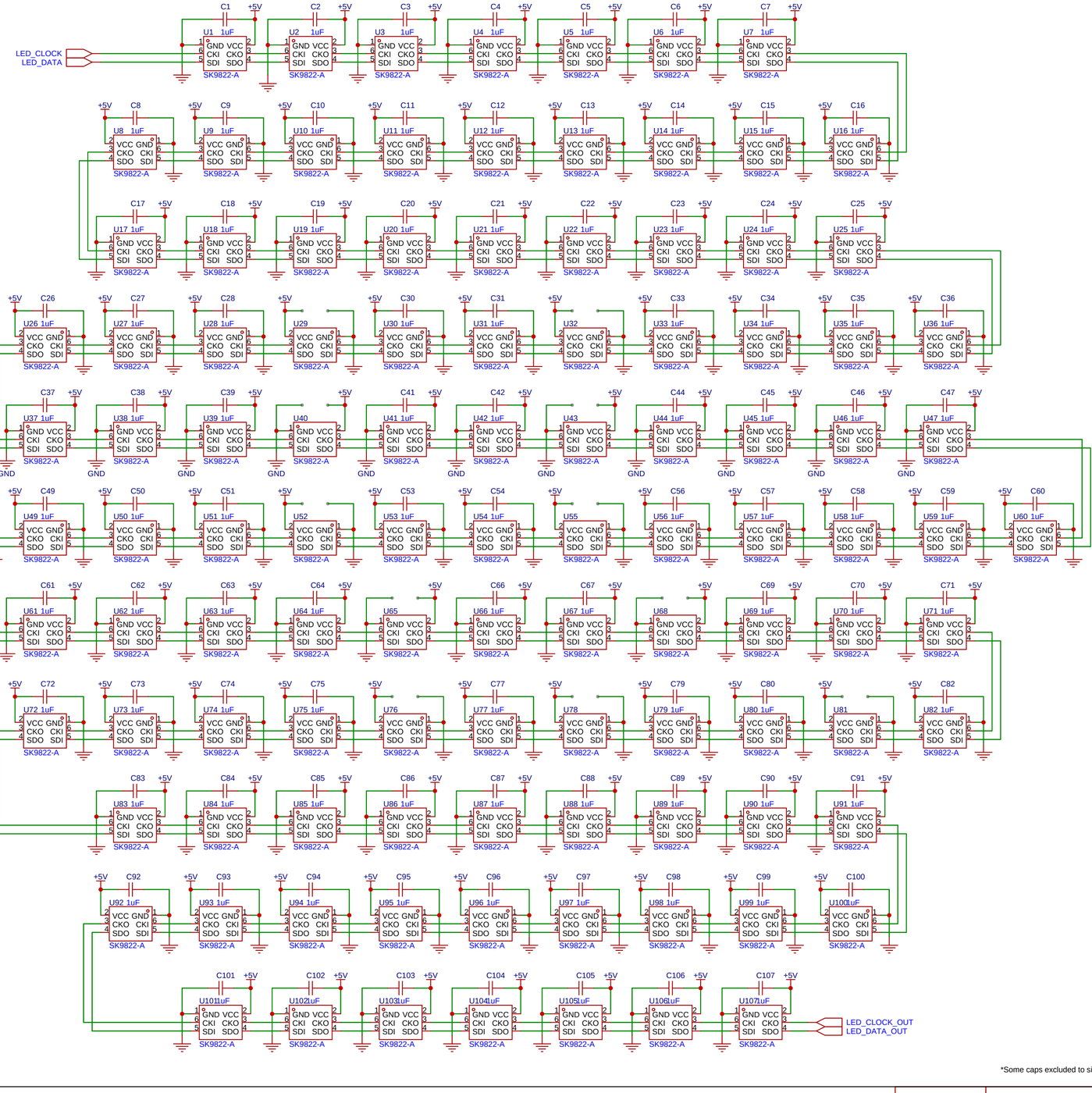
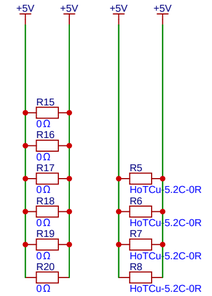
107 SK9822-A LEDs
Serpentine Routing



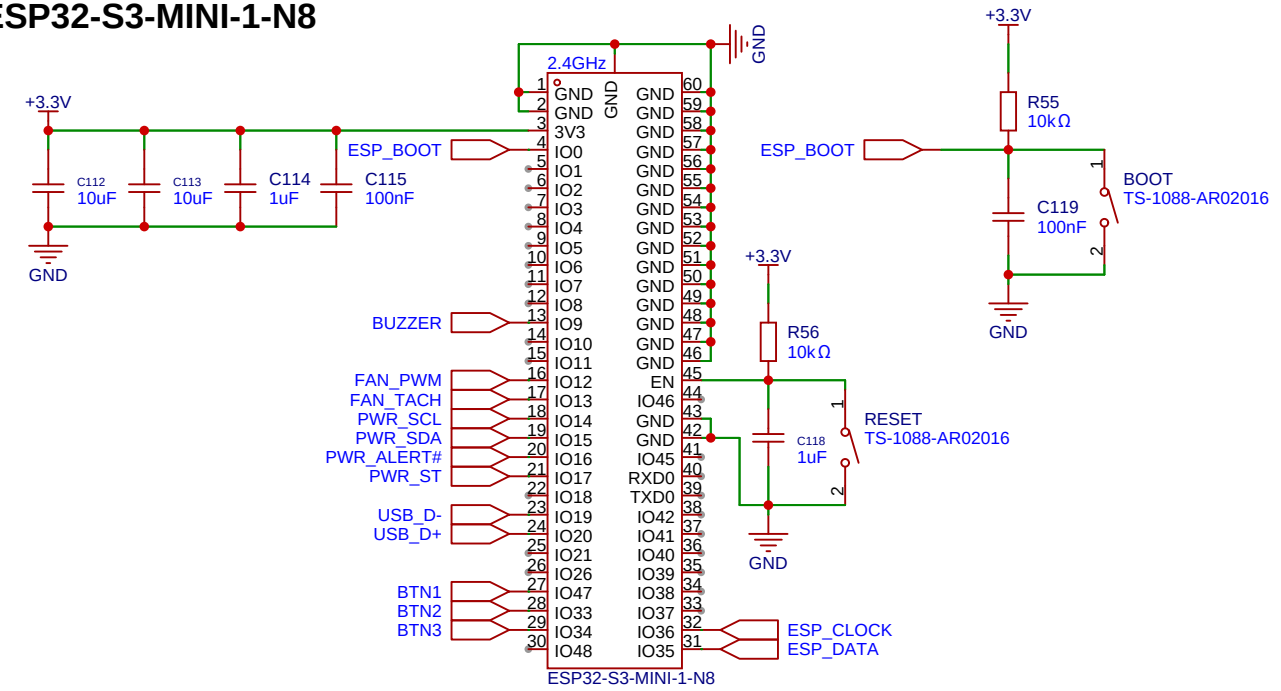
*Some caps excluded to simplify routing

0-Ohm Jumpers
Negates Vias within Heatsink Area

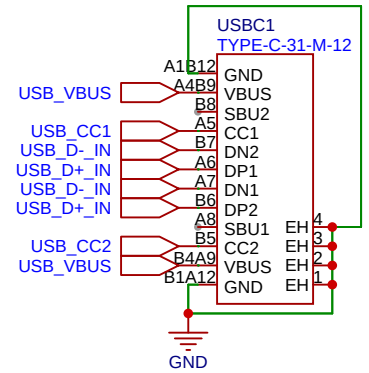


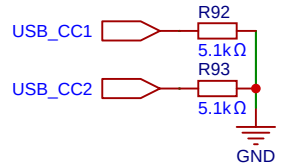
Schematic	Rev0.2_Shematic	Create at	2025-11-08
Board	HiveLED_Rev0.2	Update at	2025-12-27
Drawn		Page	LEDs
Reviewed		HexaLED	
		Version	Size
EasyEDA	V1.0	A4	Page 1 Total 4
			EasyEDA.com

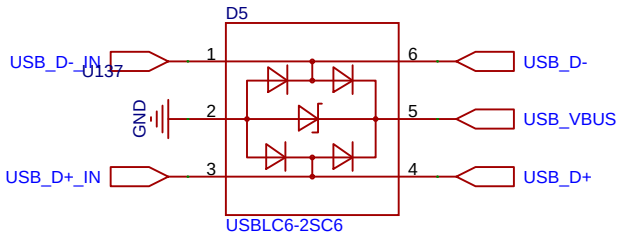
ESP32-S3-MINI-1-N8



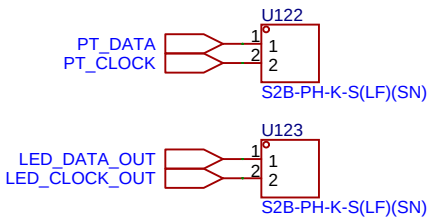
USB-C

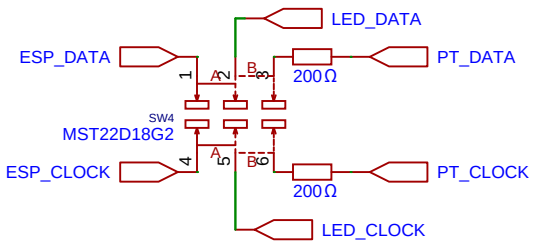






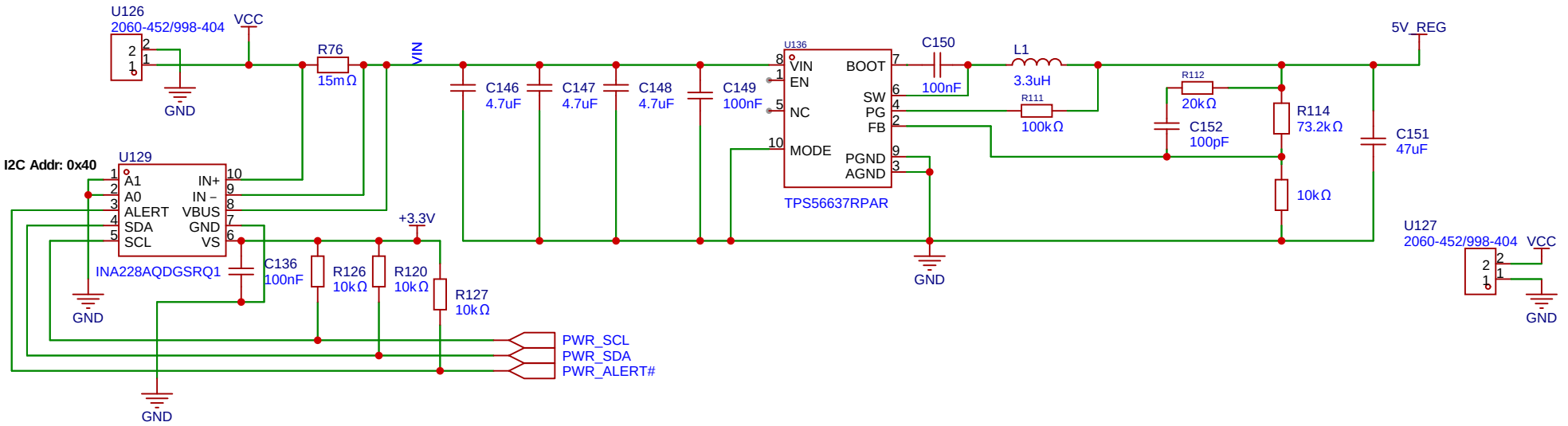
LED Passthrough & Source Select



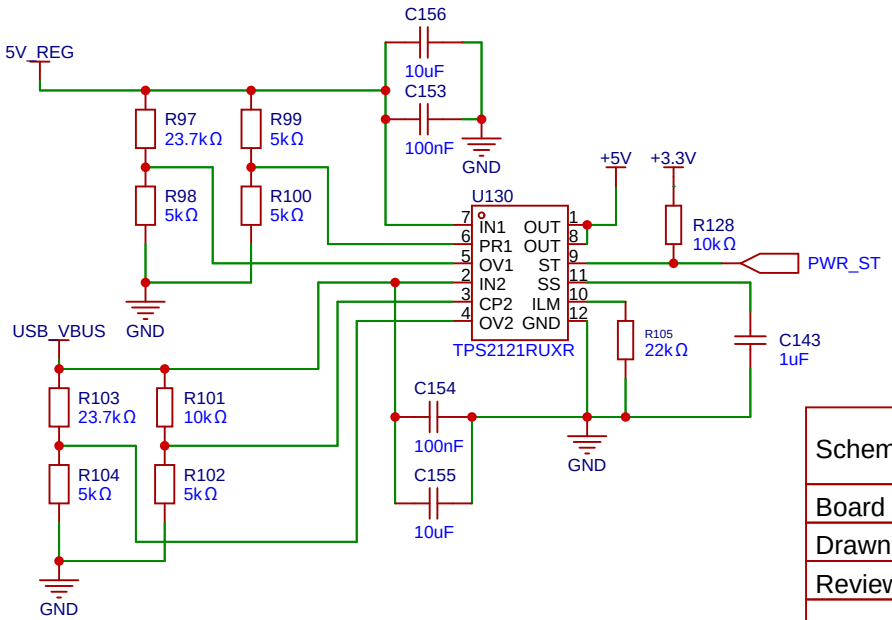


Schematic	Rev0.2_Shematic	Create at	2025-11-08
		Update at	2025-12-27
Board	HiveLED_Rev0.2	Page	Logic
Drawn		HexaLED	
Reviewed			
		Version	Size	Page 2 Total 4
EasyEDA		V1.0	A4	EasyEDA.com

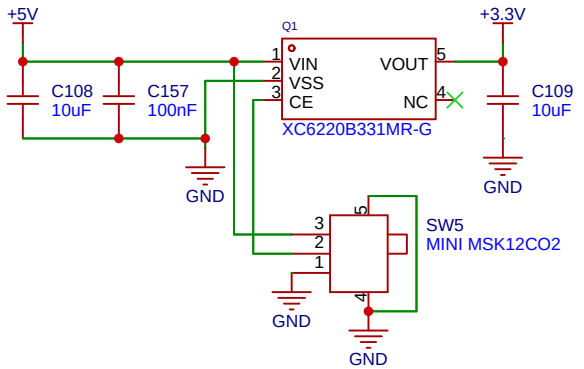
Buck Regulator (9-24V) -> 5V
Current/Temperature Monitor



5V ORing Controller
USB or Buck Power MUXing

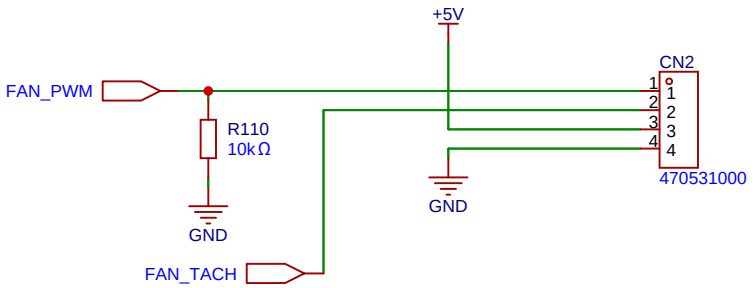


Logic Power Regulator & Switch
5V -> 3.3V

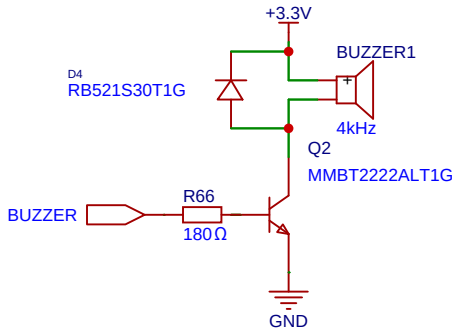


Schematic	Rev0.2_Shematic	Create at	2025-11-08
		Update at	2025-12-27
Board	HiveLED_Rev0.2	Page	Power
Drawn		HexaLED	
Reviewed			
		Version / Size / Page 3 Total 4	
EasyEDA	V1.0	A4	EasyEDA.com

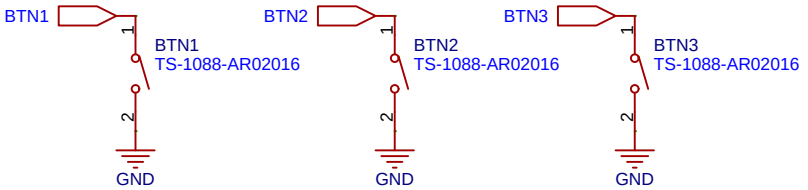
5V PWM Fan Header



Piezo Buzzer



GPIO Buttons



Schematic	Rev0.2_Shematic	Create at	2025-11-08
		Update at	2025-12-27
Board	HiveLED_Rev0.2	Page	Peripherals
Drawn		HexaLED	
Reviewed			
		Version	Size	Page 4 Total 4
EasyEDA		V1.0	A4	EasyEDA.com