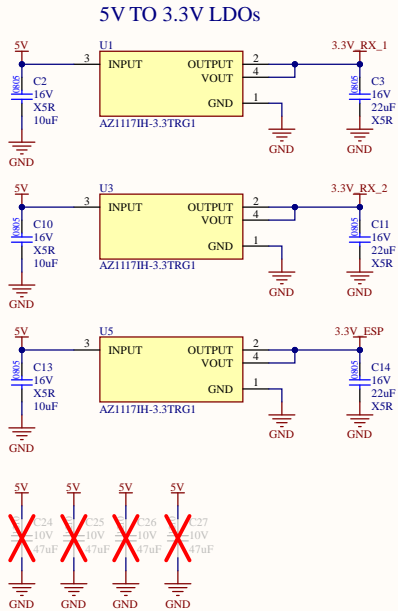
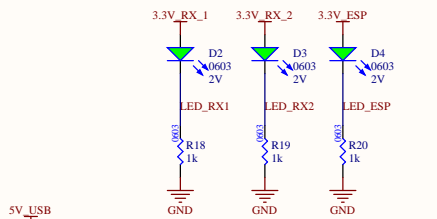


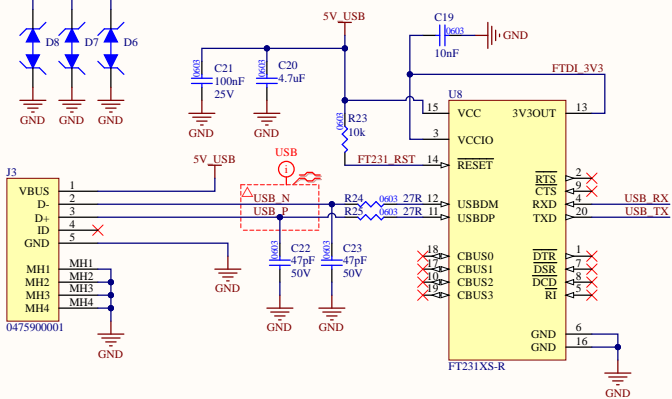
ELRS Gemini TX - Power & Data



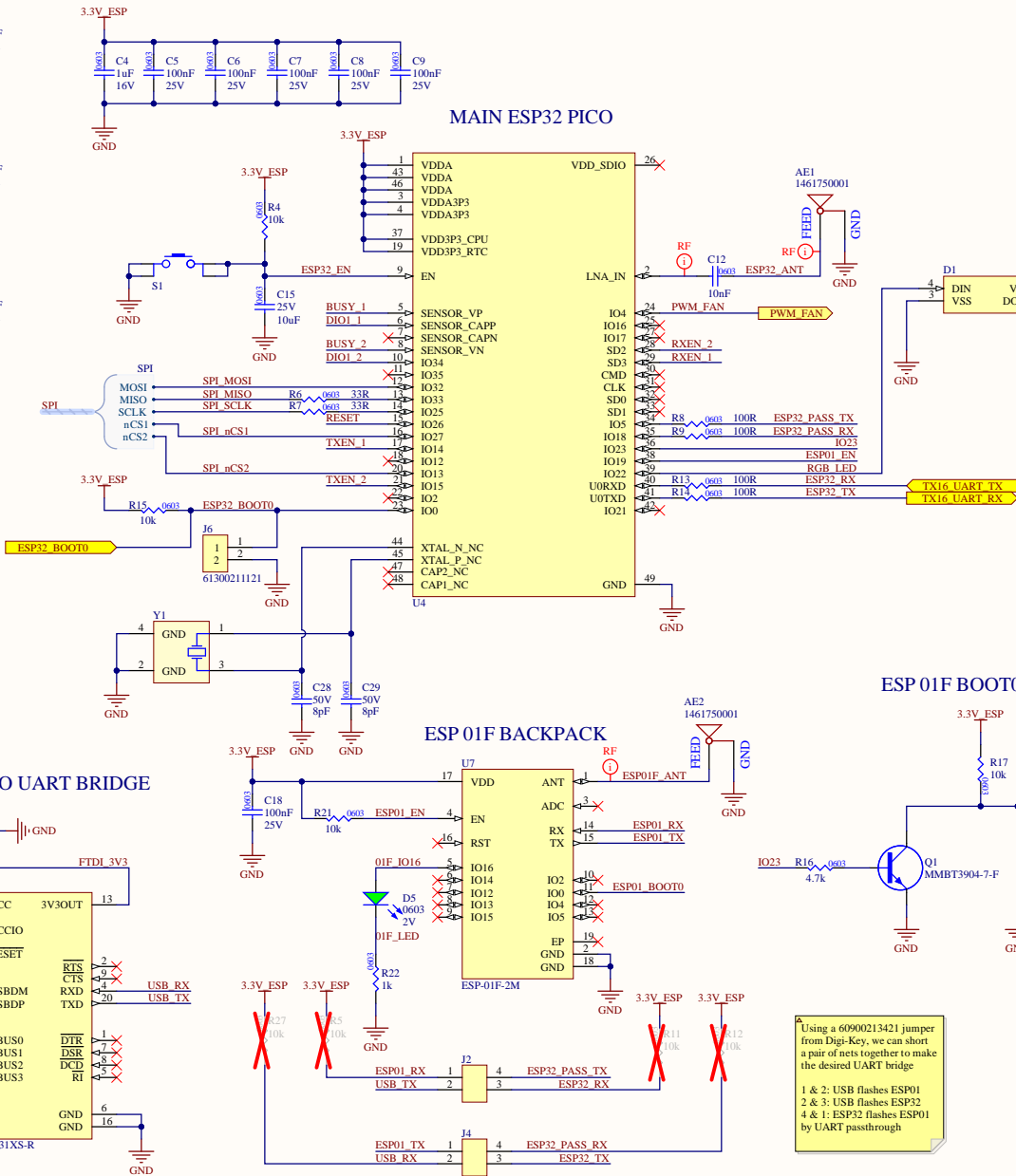
VOLTAGE RAIL INDICATOR LEDS



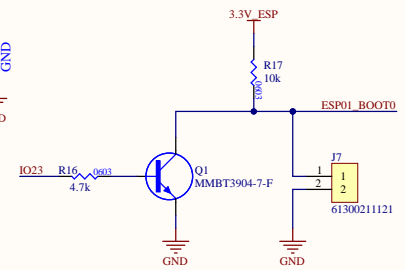
USB TO UART BRIDGE



MAIN ESP32 PICO

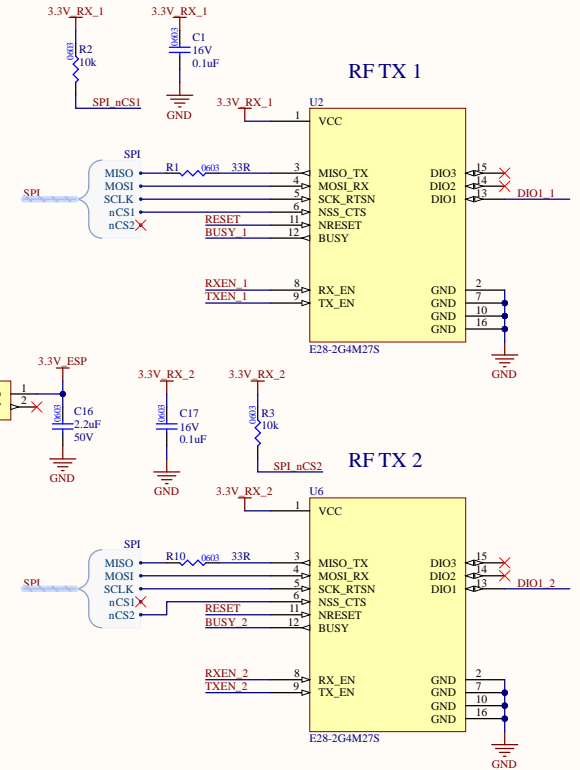


ESP 01F BOOT0 CONTROL



Using a 60900213421 jumper from Digi-Key, we can short a pair of nets together to make the desired UART bridge

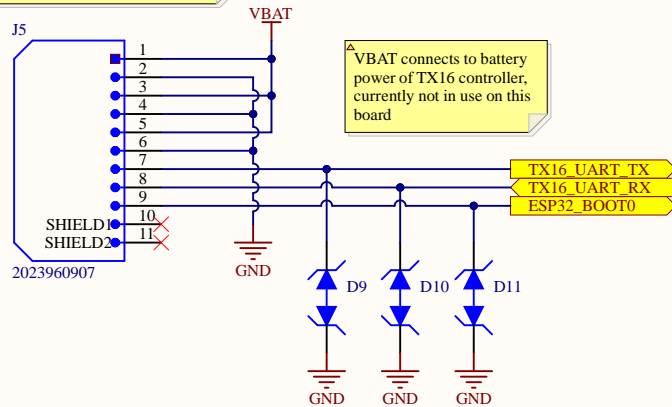
1 & 2: USB flashes ESP01
2 & 3: USB flashes ESP32
4 & 1: ESP32 flashes ESP01 by UART passthrough



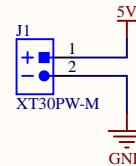
ELRS Gemini TX - Connectors

J5 on this board connects to J103 on the TX16 controller, TX16 schematic available here (<https://uwarg-docs.atlassian.net/wiki/spaces/EL/pages/2257911809/Misc.+Research+Dump>)

INPUT TX16 CONN

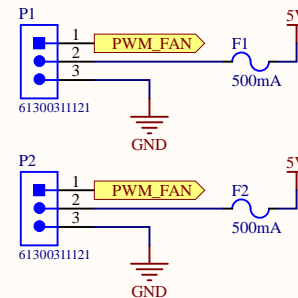


INPUT POWER XT30

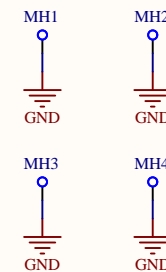




FAN CONNECTORS

Fan PN: Noctua NF-A4x10 5V



GEMINI TX PCB MOUNTING HOLES



		Waterloo Aerial Robotics Group 200 University Ave W Waterloo, Ontario, Canada N2L 3G1	
PROJECT		REVISION	
ELRS Gemini TX.PrjPcb, BUILD		*	
DOCUMENT		MODIFIED	
Connectors.SchDoc		2023-09-16	
ENGINEER		REVIEWER	
*		SHEET 2 OF 2	



ELRS GEMINI TX
FARRIS MATAR
MICHAEL BOTROS
SEPTEMBER 2023

