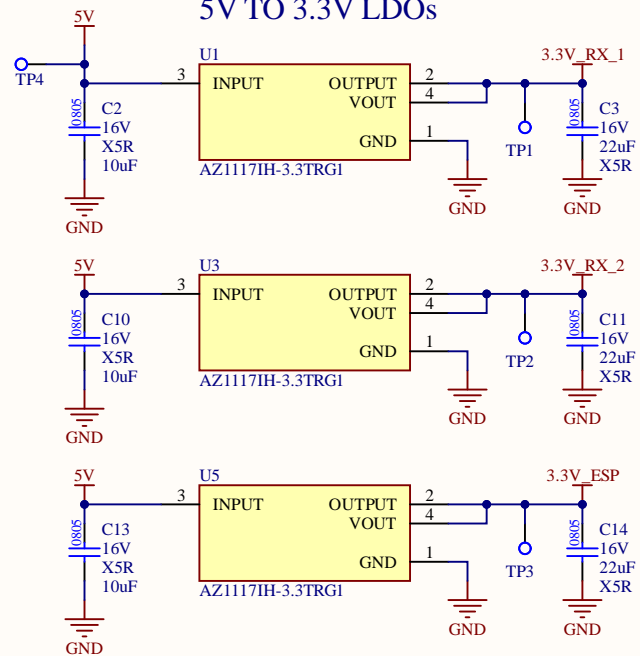
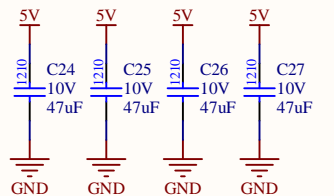


ELRS Gemini TX - Power & Data

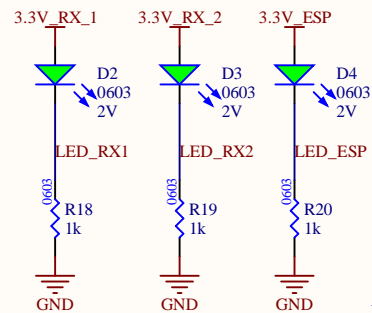
5V TO 3.3V LDOs



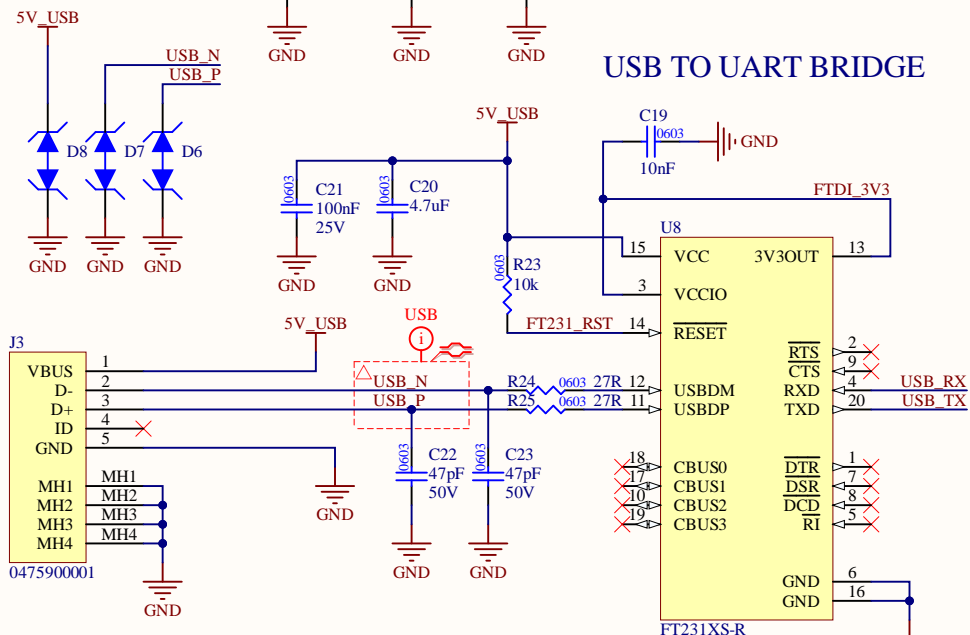
DNP BULK CAPS



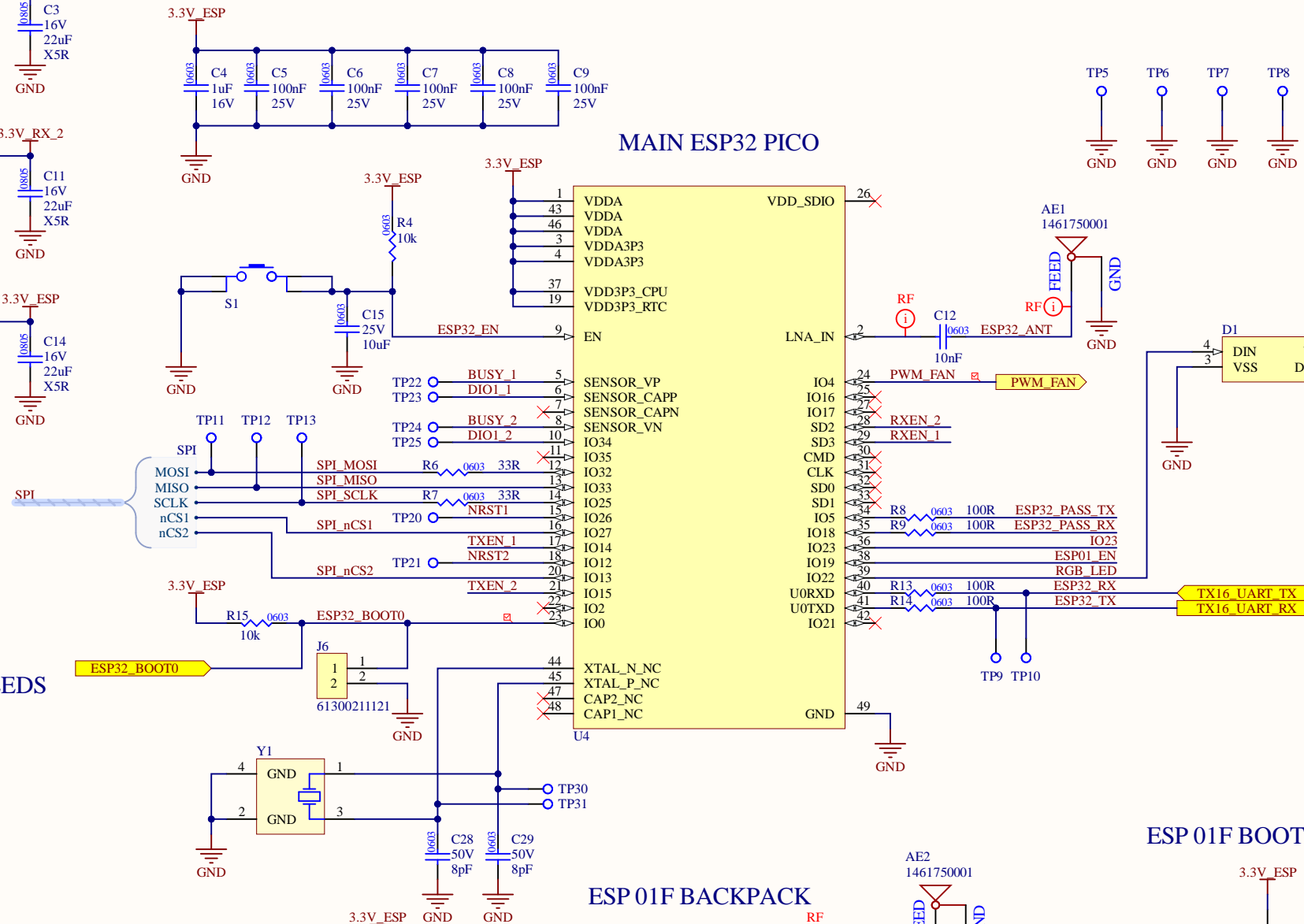
VOLTAGE RAIL INDICATOR LEDS



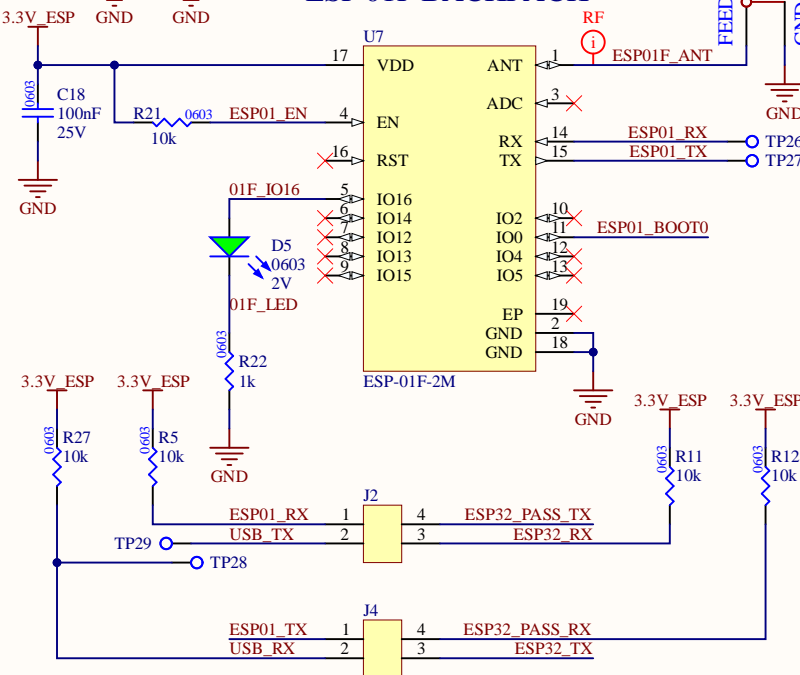
USB TO UART BRIDGE



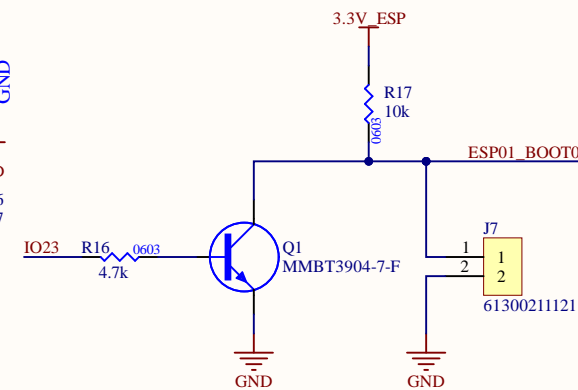
MAIN ESP32 PICO



ESP 01F BACKPACK



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

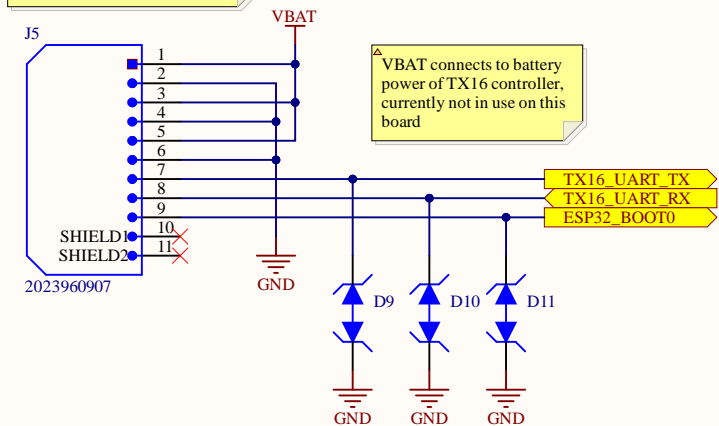
1 & 2: USB flashes ESP01
2 & 3: USB flashes ESP32
4 & 1: ESP32 flashes ESP01 by UART passthrough

WARG		Waterloo Aerial Robotics Group 200 University Ave W Waterloo, Ontario, Canada N2L 3G1	
PROJECT ELRS Gemini TX.PrjPcb, [No Variations]		REVISION	
DOCUMENT Power and Data.SchDoc		MODIFIED 9/25/2023	
ENGINEER		REVIEWER	
		SHEET 1 OF 2	

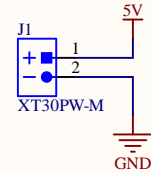
ELRS Gemini TX - Connectors

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

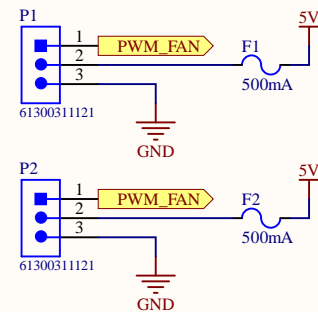


INPUT POWER XT30

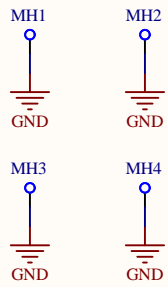



FAN CONNECTORS

Fan PN: Noctua NF-A4x10 5V



GEMINI TX PCB MOUNTING HOLES



<div>WARG</div>		<div>Waterloo Aerial Robotics Group</div> <div>200 University Ave W</div> <div>Waterloo, Ontario, Canada</div> <div>N2L 3G1</div>		<div><div></div><div></div></div> <div></div>	
<div>PROJECT</div> <div>ELRS Gemini TX.PrjPcb, [No Variations]</div>			<div>REVISION</div> <div>*</div>		
<div>DOCUMENT</div> <div>Connectors.SchDoc</div>			<div>MODIFIED</div> <div>9/25/2023</div>		
<div>ENGINEER</div> <div>*</div>		<div>REVIEWER</div> <div>*</div>		<div>SHEET</div> <div>2 OF 2</div>	