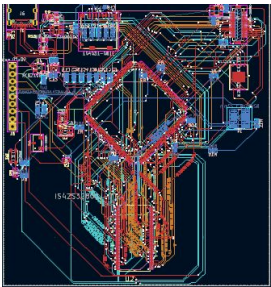
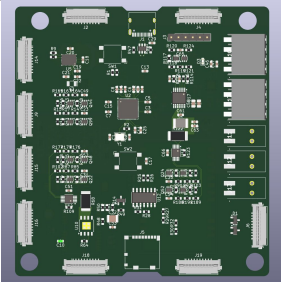


## Updates

	Boot	Average Power(mW)	Boot Time(s)	Boot Energy Consumption(mJ)	Execution Average Power(mW)	Execution Time(s)	Execution Energy Consumption (mJ)	Total Energy Consumption (Wh)
Low Power Mode								
Orin Nano 8GB 7W (GUI)		7704.886734	131.1654399	1010614.858	7601.734347	361.5218088	2748192.751	1.044113225
Orin Nano 8GB Dev 7W (GUI)		7405.037213	78.56152323	581751.003	7698.835427	328.4000478	2528297.922	0.8639024793
Orin NX 16GB 10W (GUI)		9762.567927	67.01068119	654196.327	9409.212514	358.6316118	3374441.05	1.119065938
High Power Mode								
Orin Nano 8GB 15W (GUI)		8764.778801	64.74328156	567460.5417	10275.15882	217.2475799	2232253.387	0.7776983196
Orin Nano 8GB Dev 15W (GUI)		7715.419034	54.2467653	418536.5256	9060.959463	244.1522847	2212253.955	0.7307751334
Orin NX 16GB 25W (GUI)		10118.95126	60.77589629	614988.3321	12794.21726	179.9012141	2301695.22	0.8101898755



### Milestones Achieved

- Camera board laid out.
- Argus-2 1x RP2040 Main Board schematics
- ConOps meeting with all the teams to figure out the mission details
- Finished preliminary jetson power testing
- Can save images to SD card for OpenMV camera

### Looking ahead

- Argus-2 1x RP2040 Main Board layout
- X/Y board testing
- Deployable board design
- Modifying/building state machines according to ConOps as we keep building it
- More Jetson power testing(Deep Sleep, no peripherals, etc)

## Blockers

- *GNC*: Solar Panel Simulation Data
- *GNC*: Star Tracker is lower priority, may take a month to get info.
- Waiting for PCB components and stencil arrivals for solar panel testing
- Busy for the midterms
- Accidentally burnt DRV8235 chip

### Interfaces

- Seems like 2-Camera solution is nigh (1 camera, 1 star tracker).
- *GNC*: Solar panel sim data
- *GNC*: Reaction wheel power data
- *Mechanical*: Finalize solar panel config

# The CAN-Ban

Argus-2 Avionics

Backlog Priority board Team items Roadmap In review My items + New view

Filter by keyword or by field

**Backlog** 16/5 Estimate: 1000000042

This item hasn't been started

- Draft Debug/Design of Jetson Orin Carrier Board 4
- Draft Finish Layout of Board 2
- Draft Camera Board SW: uController Interface 4
- Draft Camera Board SW: Mainboard RTC Interface 2
- Draft Scout Star Trackers 2
- Draft Deep Sleep Jetson/Power Modes 5
- Draft DRV8235 Driver Testing 1000000000
- Draft More Power Testing Stuff 5
- Draft

+ Add item

**Ready** 1 Estimate: 0

This is ready to be picked up

- Draft DRV8235 Drivers

+ Add item

**In progress** 10/3 Estimate: 40.5

This is actively being worked on

- Draft Finish PyCubed Board Reflow 0.5
- Draft GPU Power Study: 10/6/24 1
- Avionics-Cameraboard #5 Figure out RTC Setup for Camera Board 0.5
- Avionics-Cameraboard #4 Layout Power, SD Card, USB Connection 1
- Draft Update State Chart with GNC and Comms 3
- Draft Solar Panel board & Power Testing 5
- Draft RP2040 Mainboard 13
- Draft DRV8235 Driver 1.5
- Draft

+ Add item

**In review** 2/5 Estimate: 6

This item is in review

- Draft Start with deployables schematic and PCB Design 6
- Draft Z- board Routing

+ Add item

**Done** 8 Estimate: 19.5

This has been completed

- Draft LoRa Dev Boards
- Draft Argus-2 Battery Board 10
- Avionics-Cameraboard #2 Finish Overall Schematic of Camera Board 2
- Avionics-Cameraboard #1 Finish Schematic with SD Card for Camera Board 0.5
- Draft Waiting on Mech and GNC for deployable 1
- Draft Finish PyCubed and XY Boards reflow 3
- Avionics-Cameraboard #3 Layout STM/RAM Connection 1
- Draft 1xRP2040 Main Board Update Pinout 2

+ Add item