

Ground Control - RockBLOCK 9704

Design requirements:- https://docs.google.com/document/d/102uSy-YxmOLSQODuOJe0U-dM38gha3h9kwTfMUPbio/edit?addon_store&tab=t.0#heading=h.smt7dn6e7kfa

Design Notes

RockBLOCK based on the 9704 module, with focus on multiple input power choices.

Version History

Date,	PCB ver,	Inc,	Description
06/01/2025	1A	1	Initial creation
29/01/2025	1D	1	First Prototype sent for manufacture
20/02/2025	1E	1	Changes to USB-UART enable time & IRID-V_IO enable voltage.
12/03/2025	2A	1	Added specific battery input. Changed pinout.
08/05/2025	2B	1	Specified Black soldermask, Enforce Alt for U9, rotate SMA, add J2 battery connector.

Variant Options

VARIANT should include U15A/B and one of the comms variants
E.G. <U15A RS232>

Name	Fit	Notes
FB_PG	---	Resistor divider bottom connection
BattCon		J2 Picoblade Battery Connector

Top schematic



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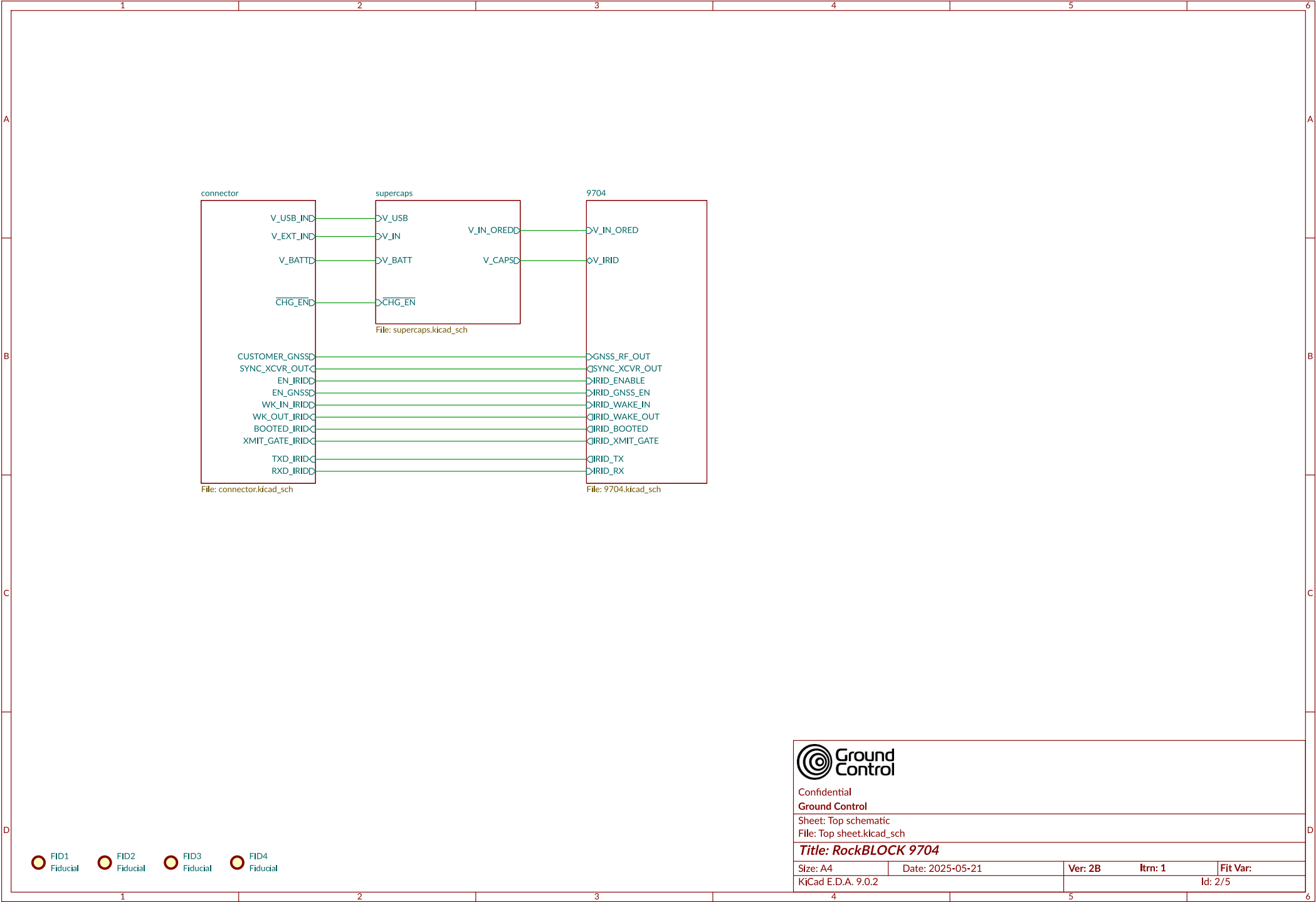


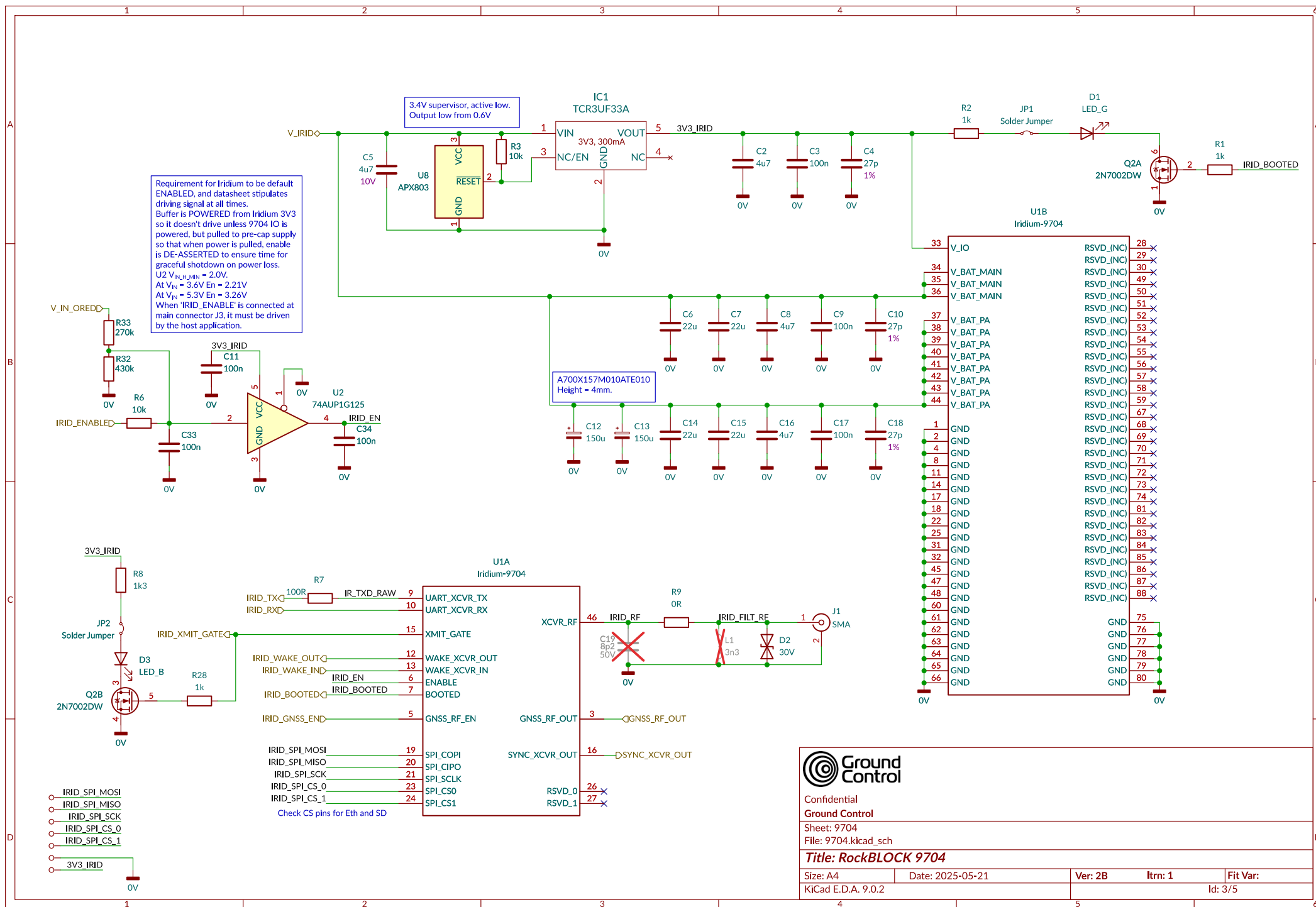
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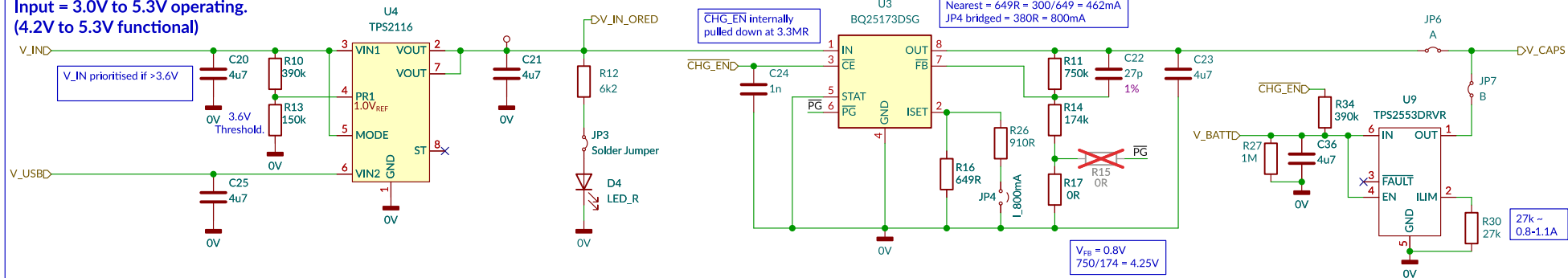
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Title: RockBLOCK 9704

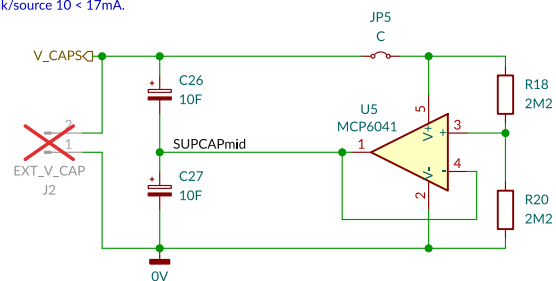
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MCP6041
Ultra low supply current, offset and input bias current.
600nA per channel.
1pA input bias.
3mV input offset.
sink/source $10 < 17\text{mA}$.



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Sheet: supercaps
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