

ATM3405 EVALUATION BOARD (with J-Link OB)

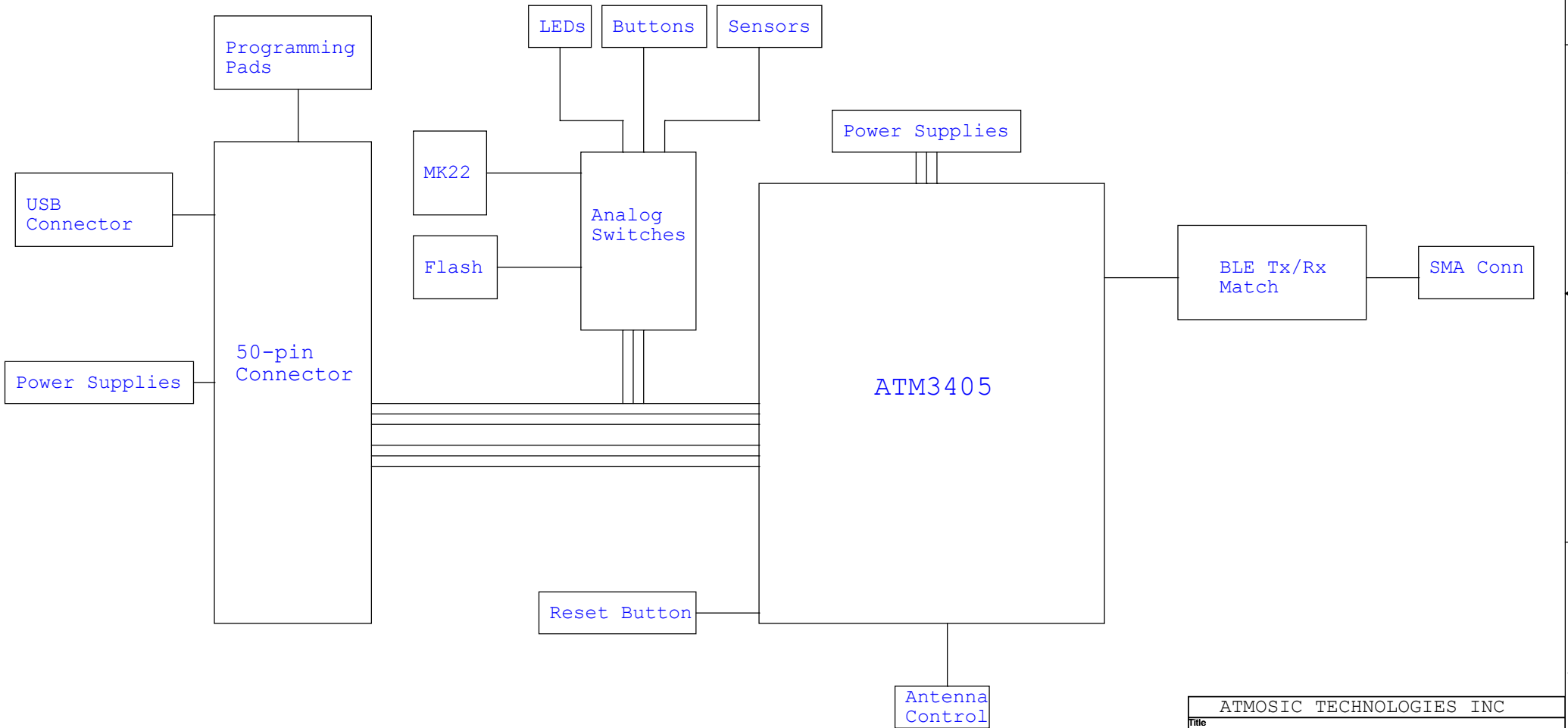
Release Date	Revision	Design Eng.	Design Notes
8/04/23	-00	Andy Dao	Initial release, based on the V3.1 Paris 5x5 EVB, with VDDIO-VCCIO tracking circuit added
12/07/23	-10	Joe Chen	Add R119 10Kohm(0402) to pull down the BENIGN_BOOT signal.
6/04/24	-20	Joe Chen	1. Changed pin 15 of ATM3405 from VSTORE to VDDPAP 2. Replace R8 from 1Mohm to 10Kohm. 3. Modify the RFIO matching components 4. Remove SB144. 5. Modify J3 from "DNS(HDR1X3)" to "HEADER-3". 6. Modify J22 from "HEADER-3" to "DNS(HDR1X3)".
5/27/25	-34	Andy Dao	1. Changed RFIO caps back to Johanson (from Murata) 2. Added connector (JP28) to support Antenna Diversity daughtercard 3. Changed Flash (U13) and analog switches (U11, U12) to DNS 4. Grounded VDDPAP; changed AVDD1, and VDDIOP cap values for best channel sounding performance
9/29/25	-37	Andy Dao	1. Changed C5 and C6 from 4.7uF to 10uF

Atmosic Technologies, Inc
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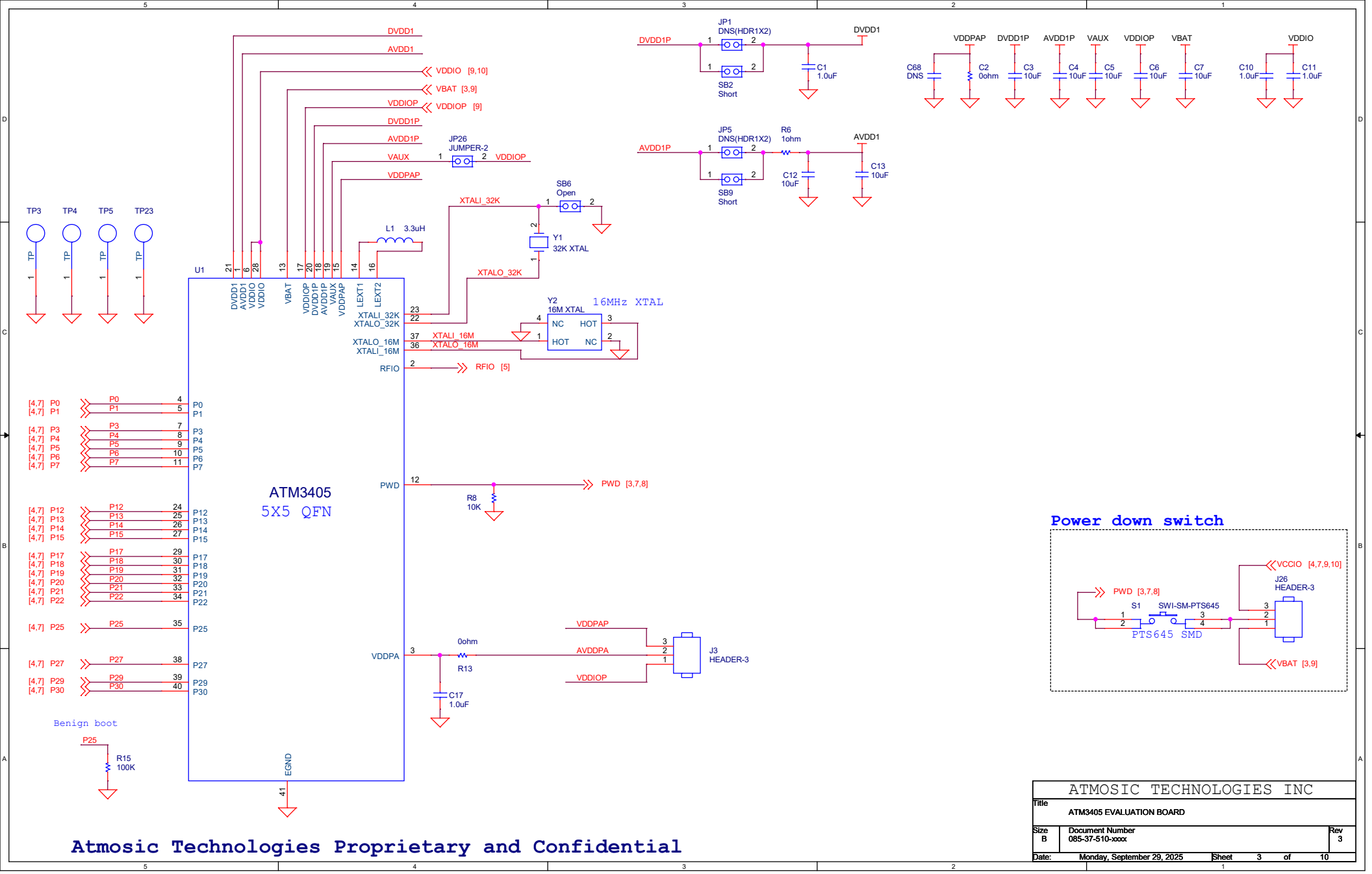
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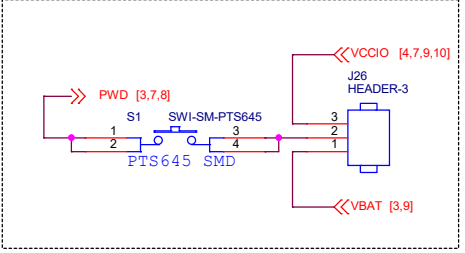
Block Diagram



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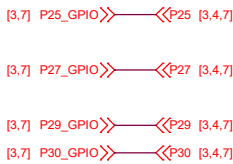
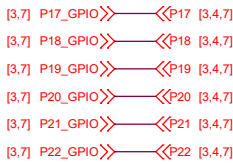


Power down switch

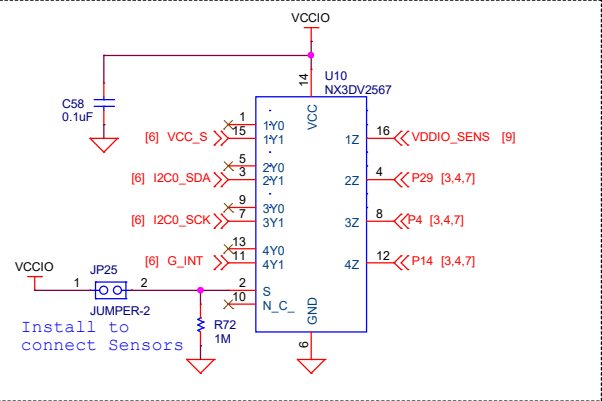


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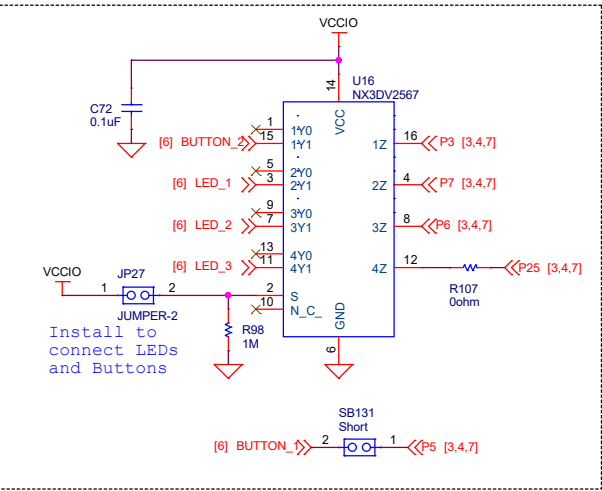
GPIO MUX



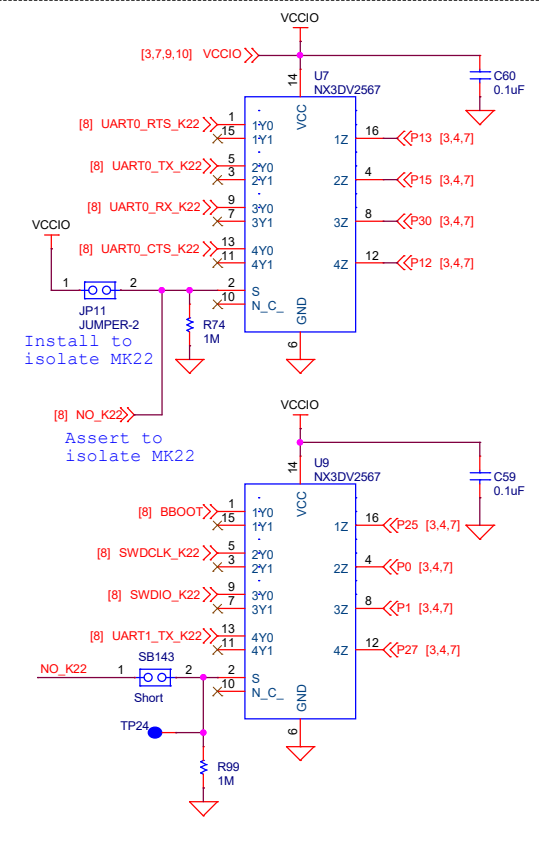
CONNECT SENSORS TO ATM3405



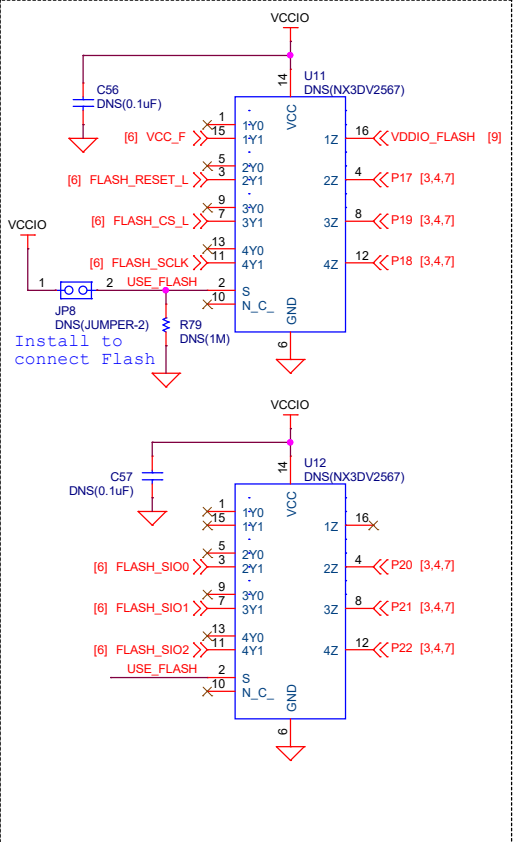
CONNECT LEDS/BUTTONS TO ATM3405



ISOLATE MK22 FROM ATM3405

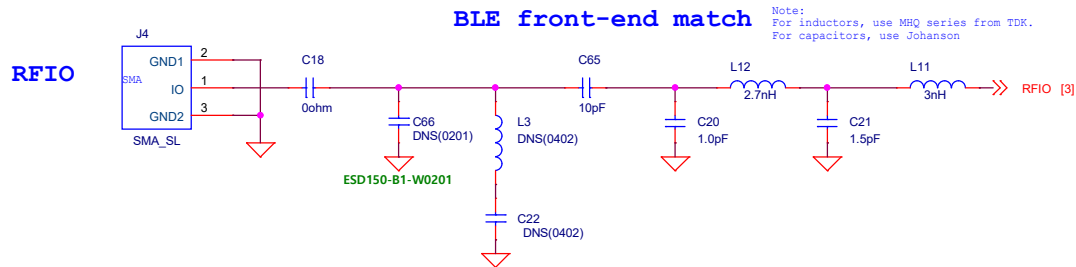


CONNECT FLASH TO ATM3405



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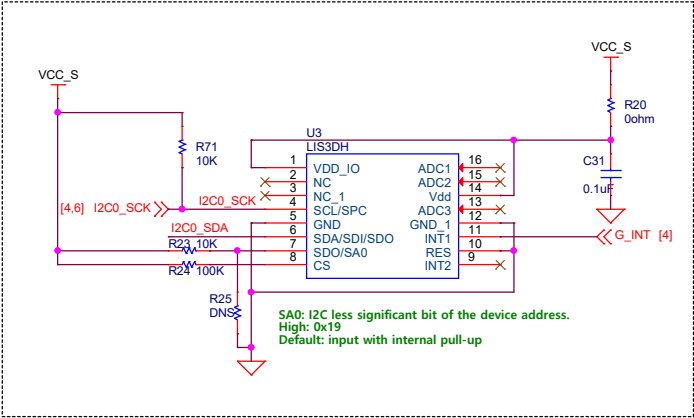
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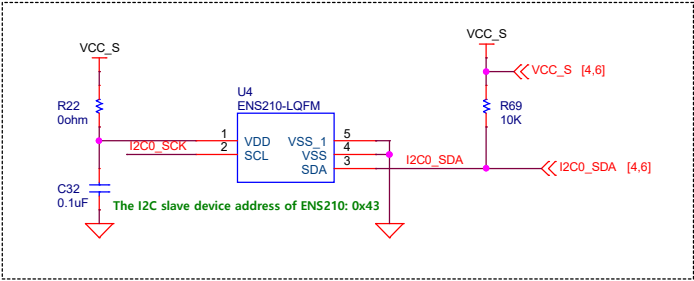
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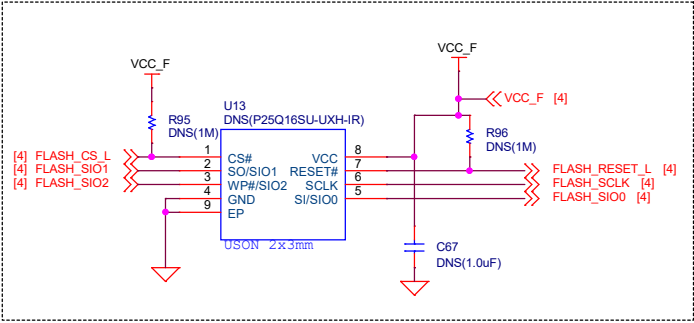
MOTION SENSOR



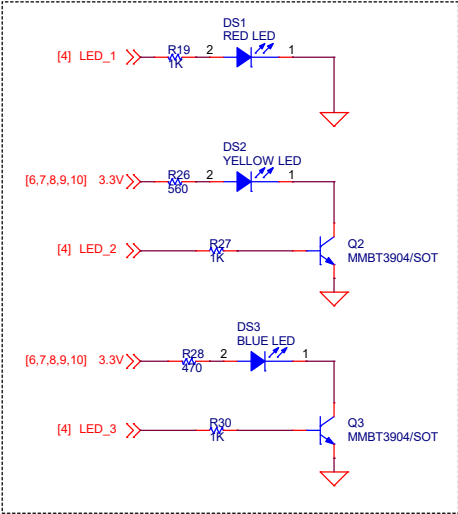
TEMP/HUM SENSOR



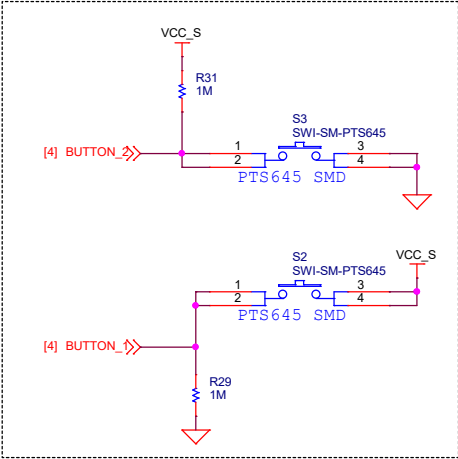
FLASH (Reserved)



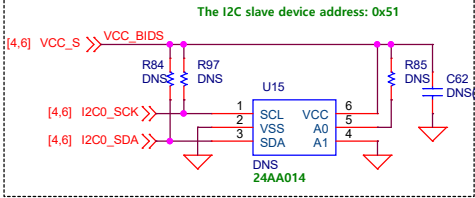
LEDS



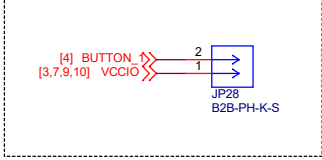
PUSH BUTTONS



BIDS (1Kbits)

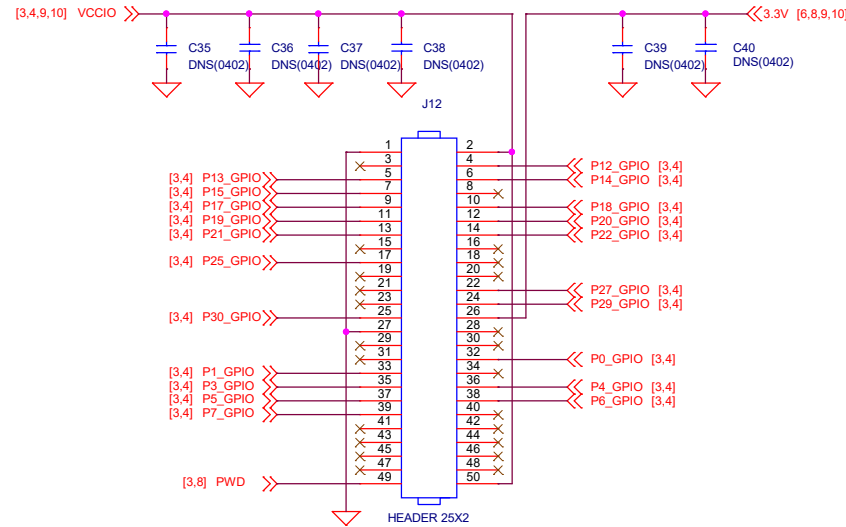


Antenna Board Control

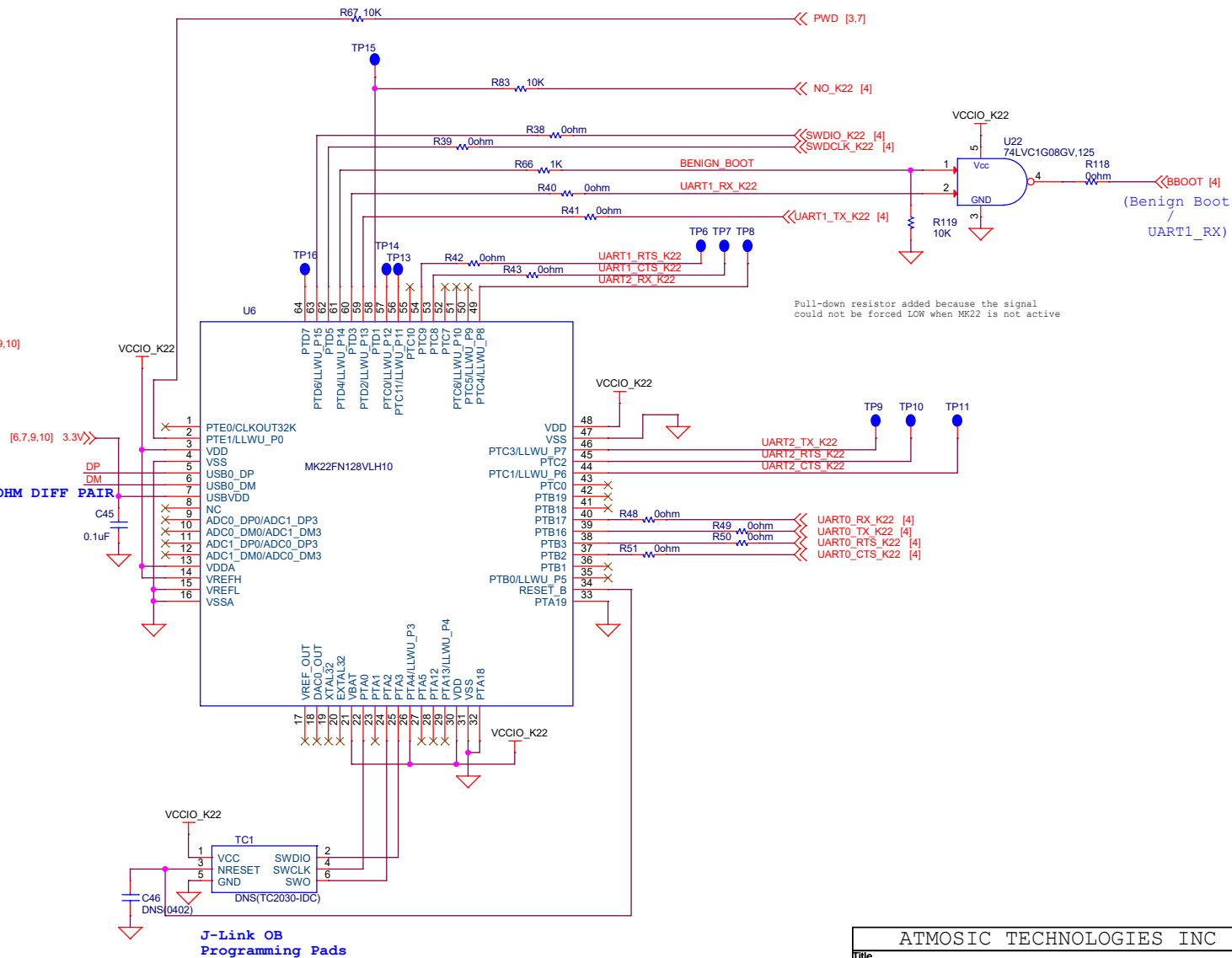
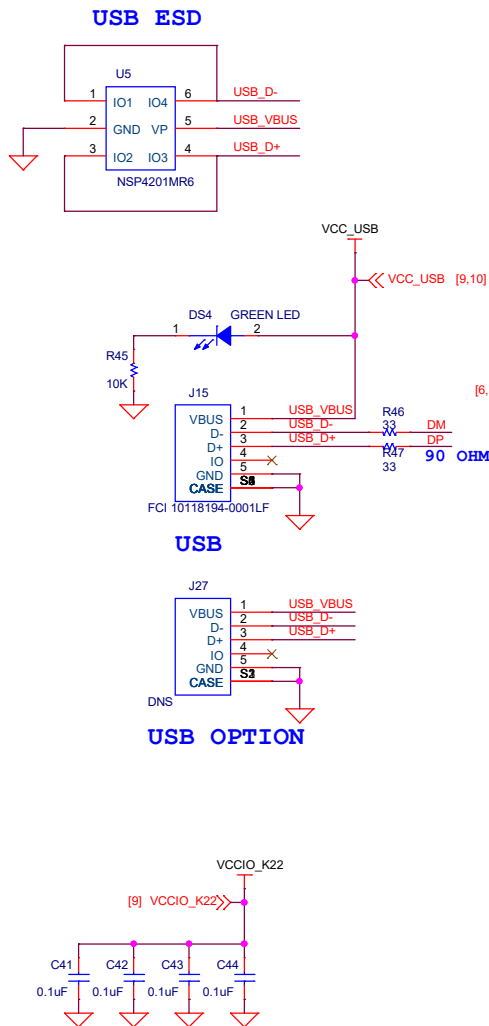


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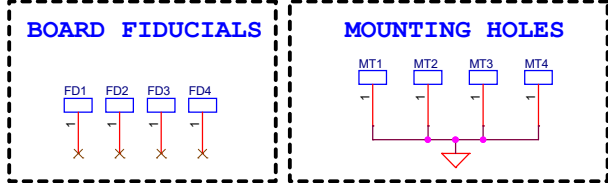
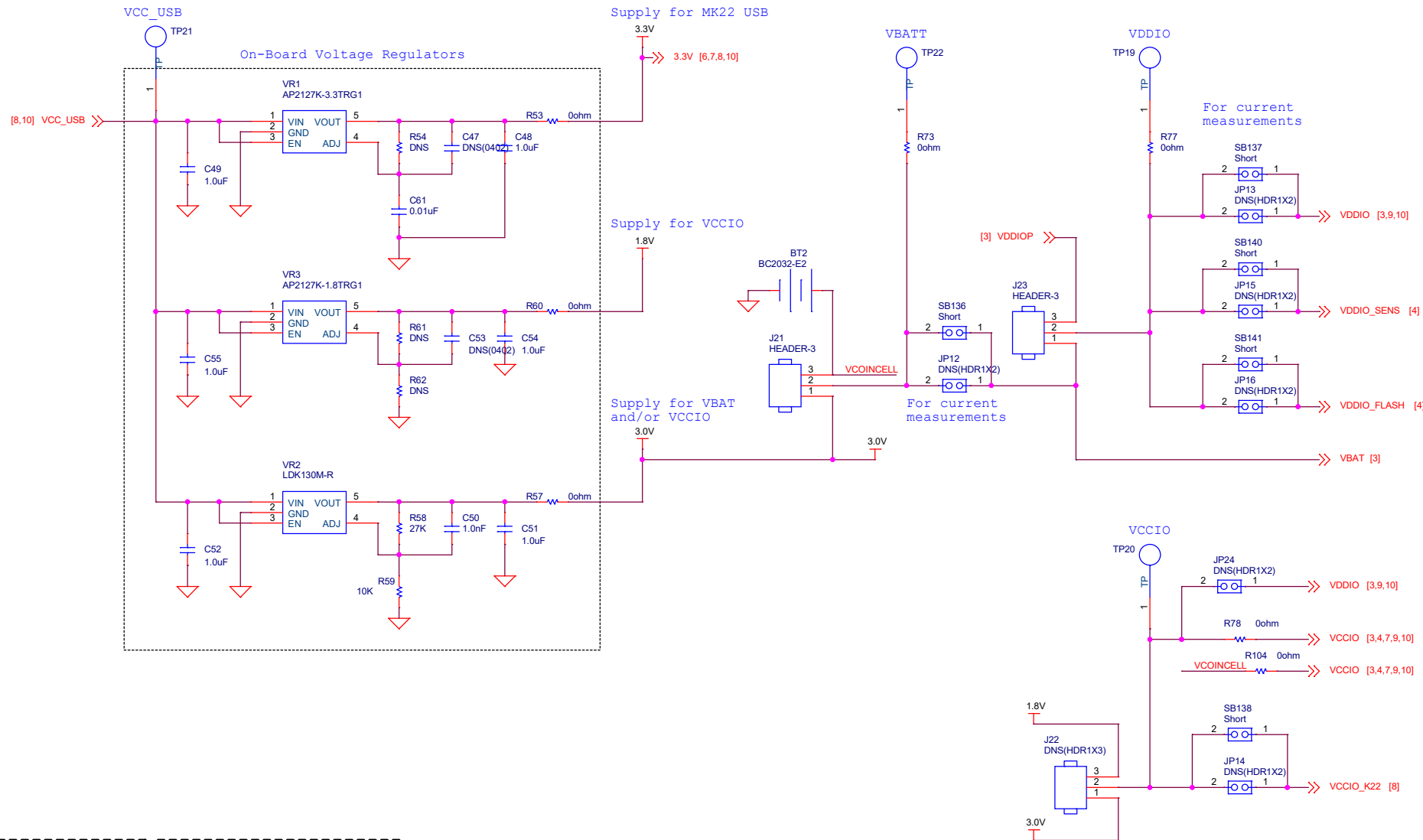
SENSOR HUB 50-PIN CONNECTOR



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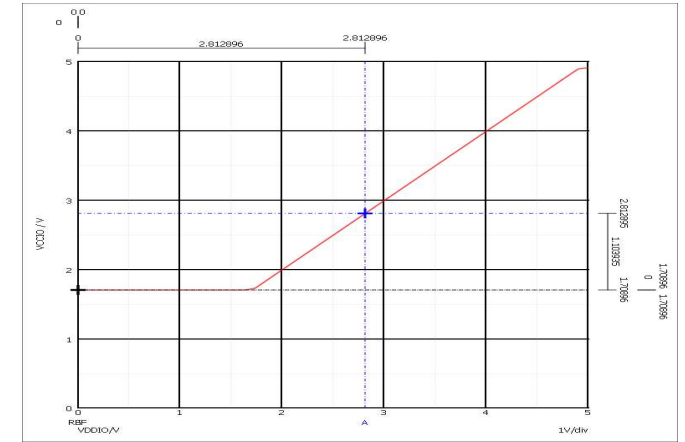
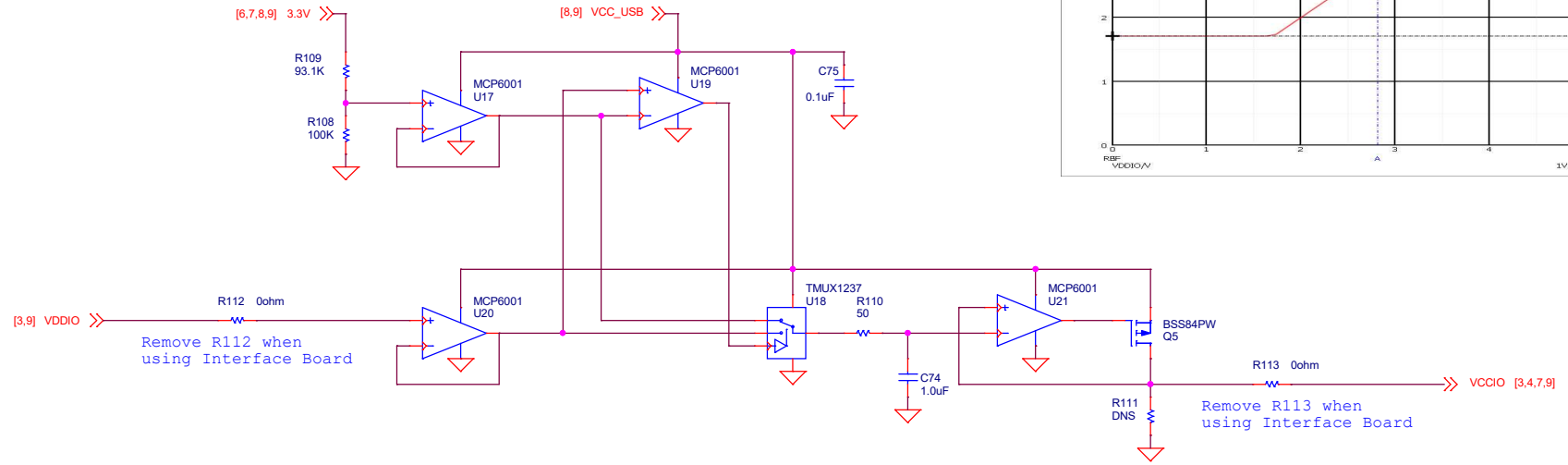


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VDDIO < 1.72V: VCCIO = 1.71V
VDDIO >=1.72V: VCCIO = VDDIO



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