

MP DOWNLOAD BOARD (DL)

Release Date	Revision	Design Eng.	Design Note
8/11/2020	Rev. 01	JOE	Initial release
8/20/2020	Rev. 02	JOE	1. Reduce Jump numbers 2. Add 1.8V VDDIO Jump
9/28/2020	Rev. 03	JOE	1. Replace the unidirection level shift U12 for BBOOT and PWD 2. Change VBAT and VCCIO 3.3V option to 3V. R17 and R20 change to 0ohm
10/26/2021	Rev. 04	JOE	1. Switching regulator U4 change from PWM mode to hysteresis mode, R18 connect to ground. 2. Add a GPIO1 control option from U1-pin24 (ADBUS4) to J1 2x10 connector pin17 3. Add S1 button to resut DUT
03/07/2022	Rev. 05	JOE	1. Add power control circuits for BAT/VCCIO/LS. 2. R43, R47, R51, R52, R53, R54, R57, R62, R122 change from 0 ohm to 62 ohm.
05/02/2022	Rev. 06	JOE	1. R43, R47, R51, R52, R53, R54, R57, R62, R122 change to 62 ohm. 2. Add FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9

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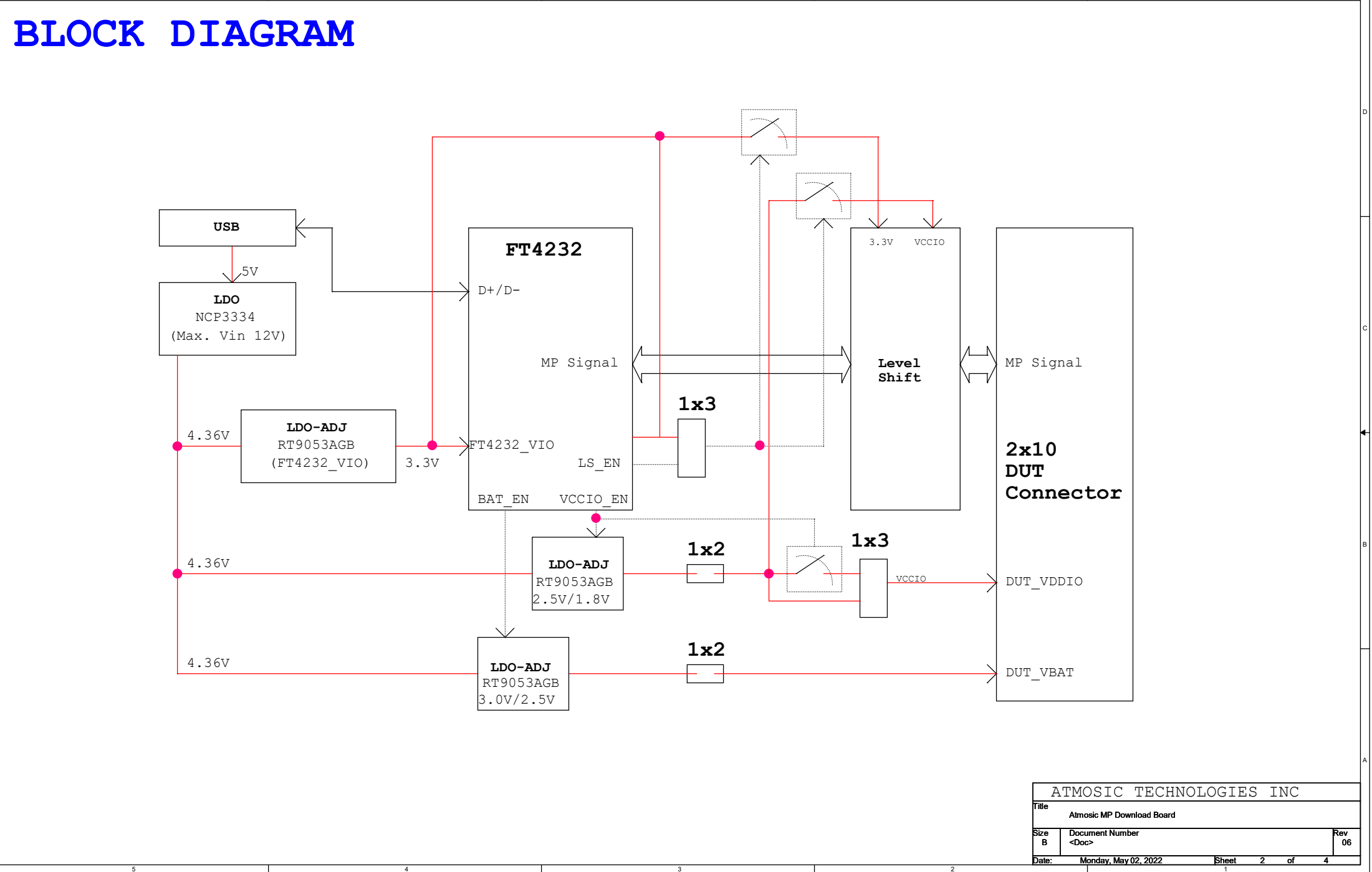
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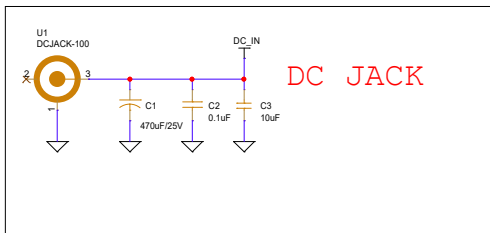
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BLOCK DIAGRAM

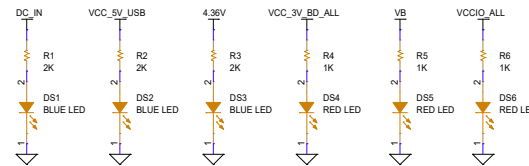
The block diagram illustrates the power and signal flow of the Atmospheric MP Download Board. It features a USB input connected to an LDO (NCP3334) which provides 5V to the FT4232 module. The FT4232 module's D+/D- pins are connected to the USB. The FT4232 module's MP Signal pin is connected to a Level Shift block. The Level Shift block's output is connected to the MP Signal pin of the 2x10 DUT Connector. The FT4232 module's FT4232_VIO pin is connected to an LDO-ADJ (RT9053AGB) which provides 3.3V to the FT4232 module. The FT4232 module's LS_EN pin is connected to a 1x3 connector. The FT4232 module's BAT_EN pin is connected to an LDO-ADJ (RT9053AGB) which provides 3.0V/2.5V to the DUT_VBAT pin of the 2x10 DUT Connector. The FT4232 module's VCCIO_EN pin is connected to an LDO-ADJ (RT9053AGB) which provides 2.5V/1.8V to the DUT_VDDIO pin of the 2x10 DUT Connector. The DUT_VDDIO pin is also connected to a 1x3 connector. The DUT_VBAT pin is connected to a 1x2 connector. The 2x10 DUT Connector is connected to the DUT_VDDIO and DUT_VBAT pins of the DUT. The diagram also shows a 3.3V VCCIO pin on the DUT and a 3.3V VCCIO pin on the Level Shift block.

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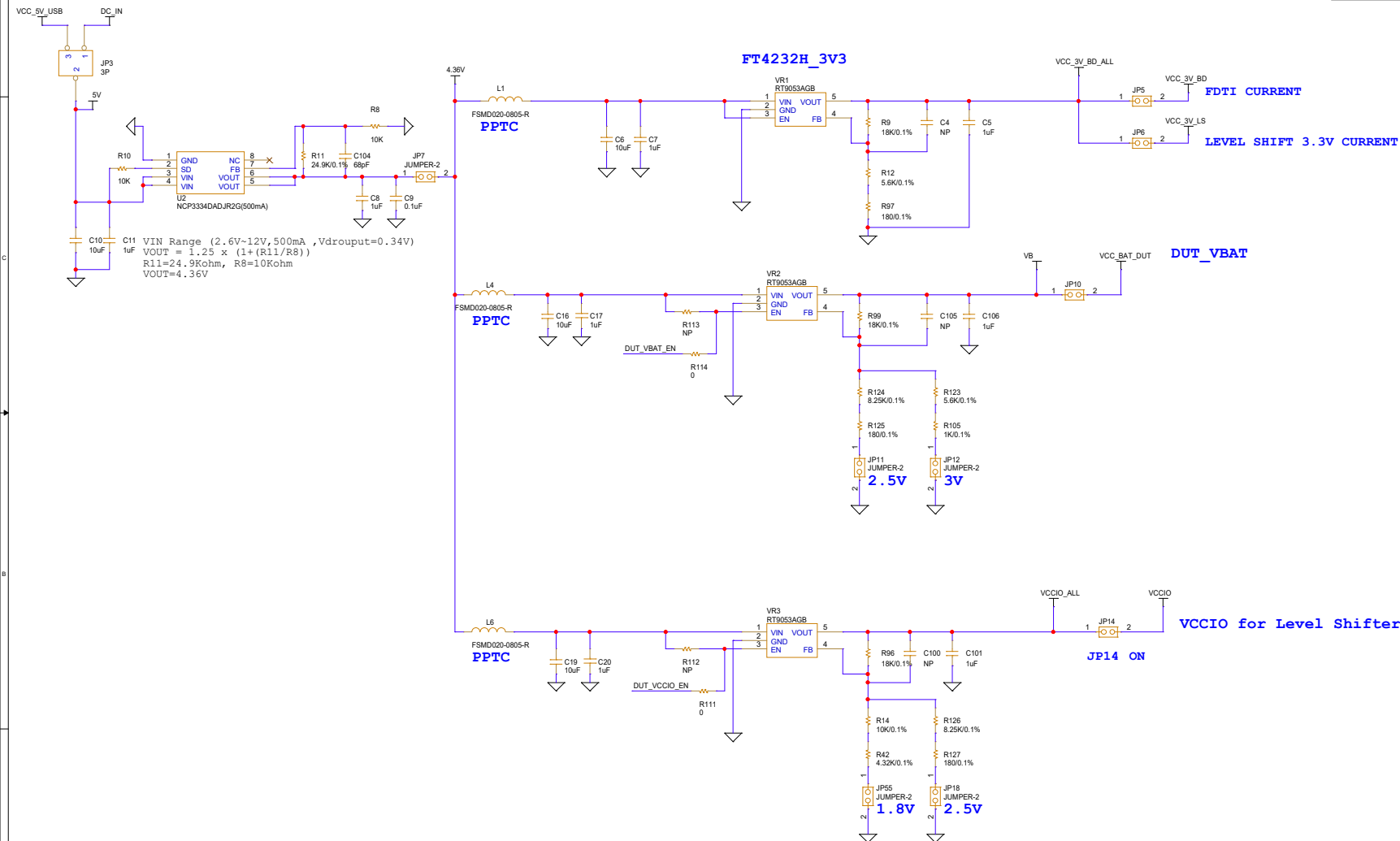
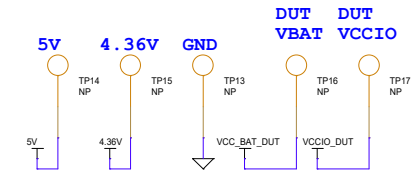




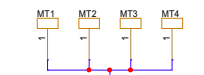
LED for Power



TEST PIN



MOUNTING HOLES



BOARD FIDUCIALS

