Improvements for V0.3 of the Rastaban PCB

|  |  |  |
| --- | --- | --- |
| # | Improvement | Finished |
| 1 | Figure out which hardware pins to use for what components led/focusmotor (drv8838) | NO |
| 2 | TMC 2209 uses different ms1 ms2 configuration for microstepping than the tmc 2208! Keep this in mind. | DONE, new design uses TMC2209 design config |
| 3 | Remove tmc2208 from design, focus on 2209 | DONE, no more tmc2208. |
| 4 | Use UART on 2209 and remove step/dir enable interface. | DONE, UART is only control way now |
| 5 | Use appropriate resistors for UART control on 2209 (resistance should decrease with increase in drivers). | DONE |
| 6 | Connect diag pin of 2209 for stall (stuck motor) indication for rpi?? | NO |
| 7 | Checkout the problems with diag pin on tmc2209 (see pdf in datasheets) | NOT CHECKED |
| 8 | Change L1 footprint | Enlarged and changed to bourns square size |
| 9 | No copper zone for L1? | Copper zone added under L1 for MRI protection |
| 10 | Maybe move the camera connector to the left | YES, DONE |
| 11 | Corners in the hat header silkscreen. | Already satisfied in previous version |
| 12 | Raspberry pi power circuit coil whine should be resolved. | Solved, new values added to schematic |
| 13 | Footprints for all power circuit components should be enlarged/checked | Checked, DONE |
| 14 | Add logo v0.2 | DONE |