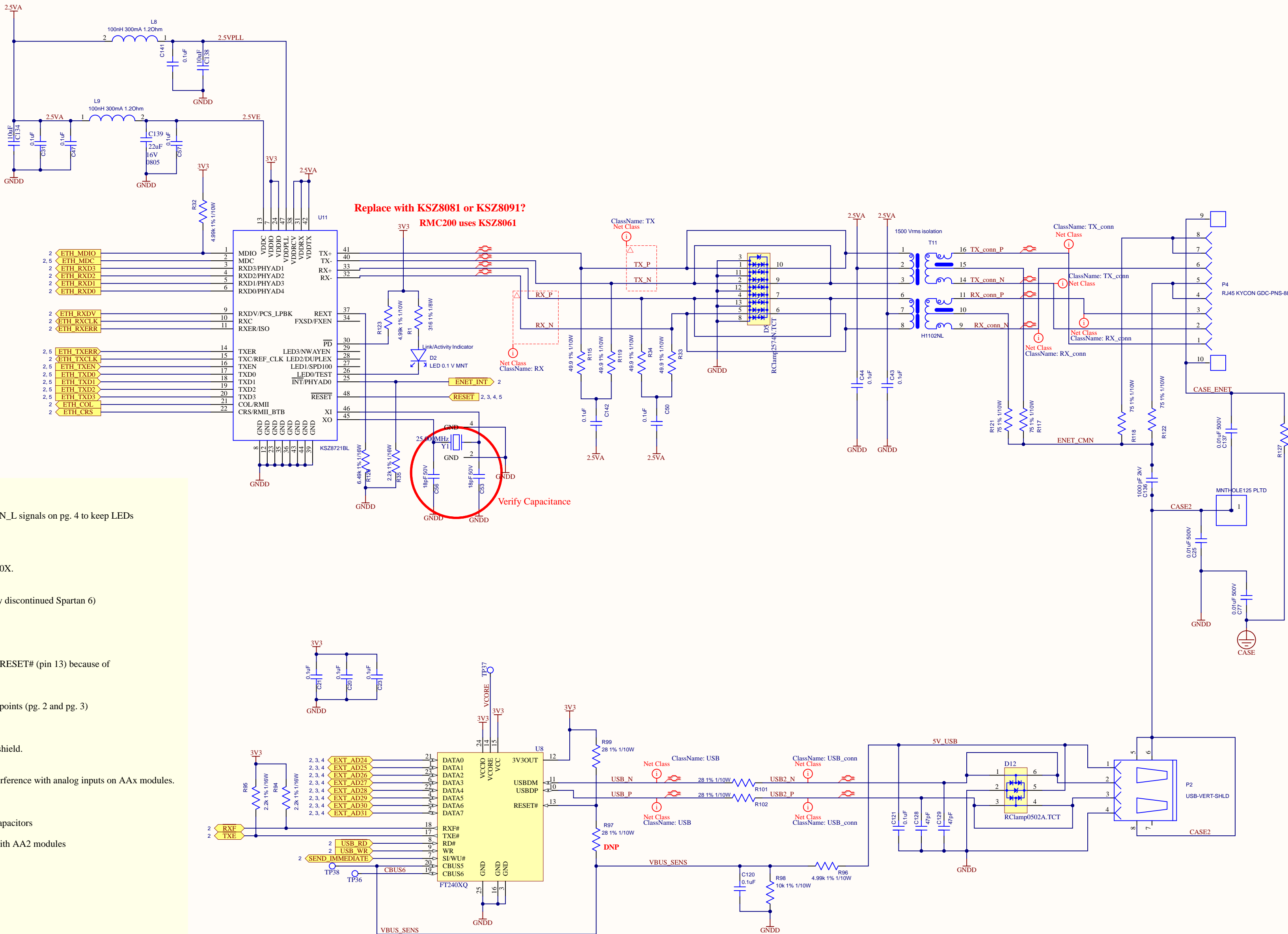
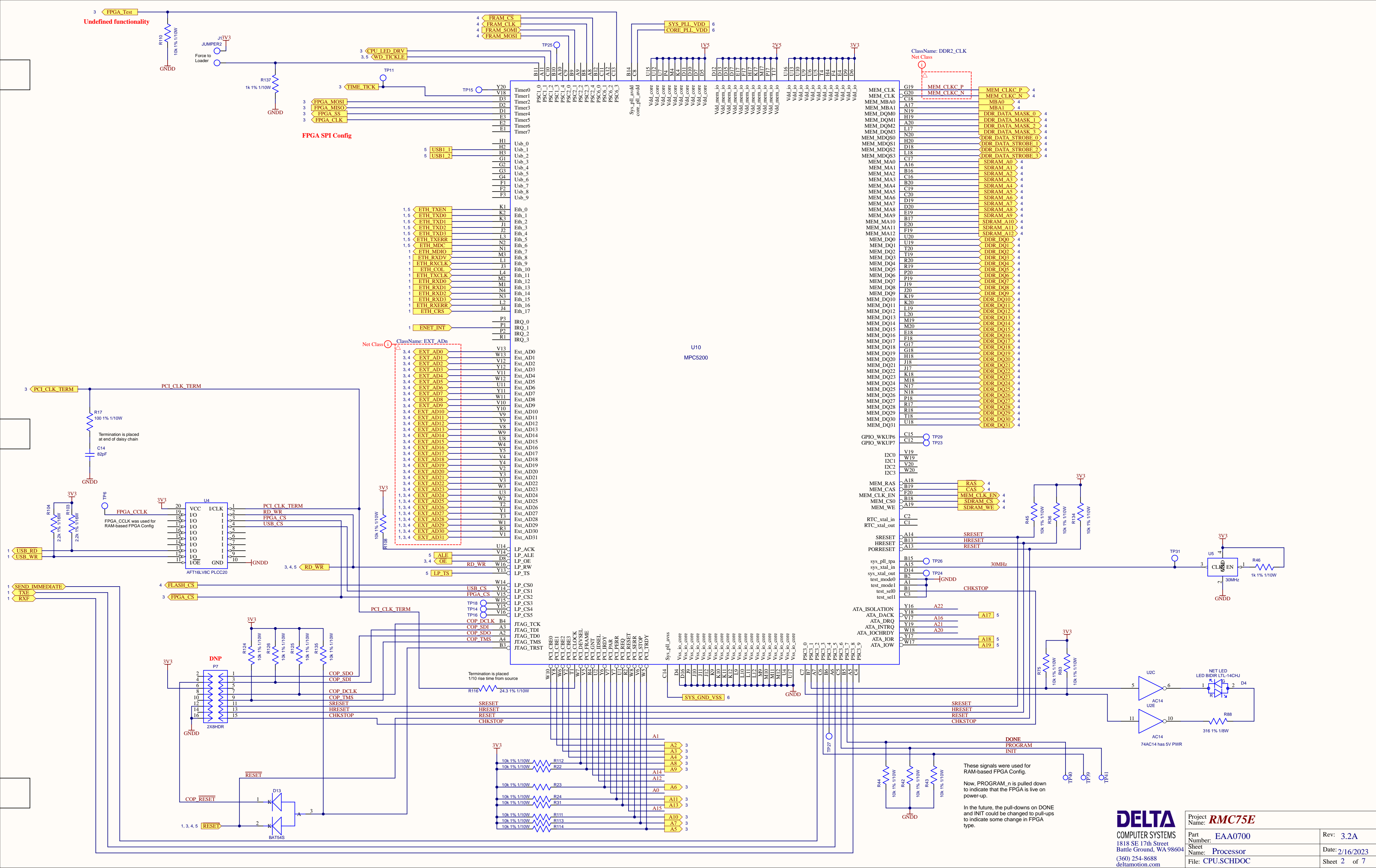



RMC70E Revision History and Notes

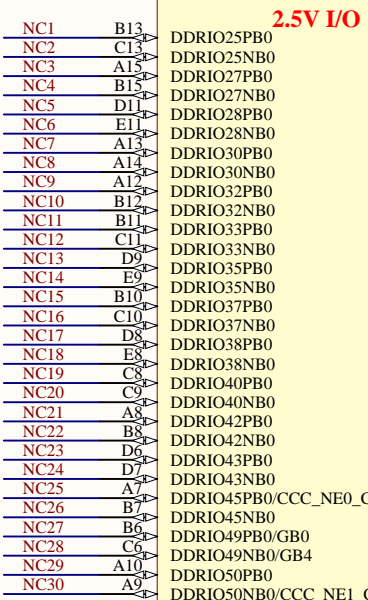
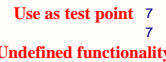
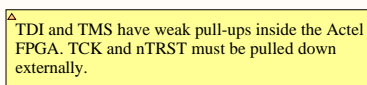
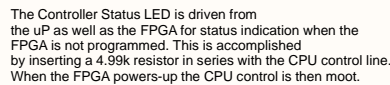
- Rev 2.1A 20200814
Added 20k pull-up resistors to M_IO_OE, M_IO_LOAD and M_DRIVE_EN_L signals on pg. 4 to keep LEDs on daughter cards from flashing on power-up.
- Rev 2.2A 20220317
Replaced FT245BL (U13) with FT240X due to obsolescence.
Removed associated crystal and EEPROM which are now included in FT240X.
- Rev 3.0A 20220524
Changed from Xilinx Spartan 6 to Microchip Igloo 2 FPGA (Xilinx abruptly discontinued Spartan 6)
Replaced obsolete crystals with newer package
Replace most Tantalum capacitors with ceramic
Replade 25 MHz crystal with newer package type
- Rev 3.1A 20220819
Connected USB 5V input to VBUS_SENS (Pin 20 on FT240X) rather than RESET# (pin 13) because of problem found on rev 2.2. See ECN for Rev 2.2B.
Added pull-up to FPGA_SS (pg. 3)
No longer drive DEVRST_N on FPGA. Just pull high. (pg. 3)
Disconnect unused A0 and A1 address lines from FPGA and convert to test points (pg. 2 and pg. 3)
- Rev 3.1B 20230127
Install capacitors C128 and C134 (were DNP)
Add a 0.01uF 500V 1210 X7R (ECA0038) between USB ground and USB shield.
- Rev 3.1C 20230217
Add ferrite on top of L7 and L12 (on 1.5V and 2.5V DC-DC) to prevent interference with analog inputs on AAx modules.
- Rev 3.2A 20230215
Added option to connect USB VBUS_SENS to RESET# as well as CBUS5
Made better connections from all shields to case either directly or through capacitors
Capacitively coupled GNDD to CASE to improve USB robustness.
Moved 1.5V and 2.5V DC-DC to back side of PCB to reduce interference with AA2 modules

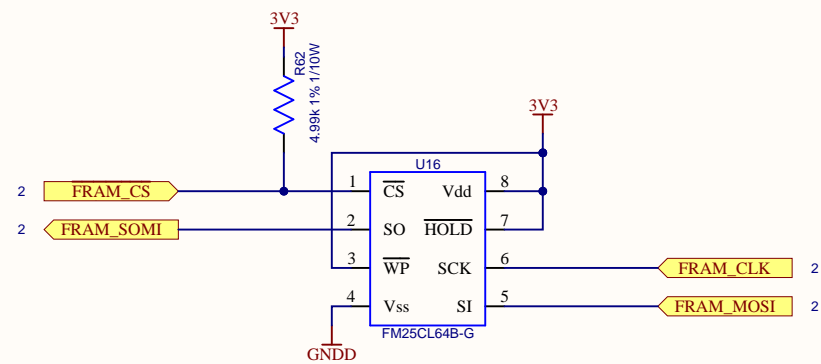
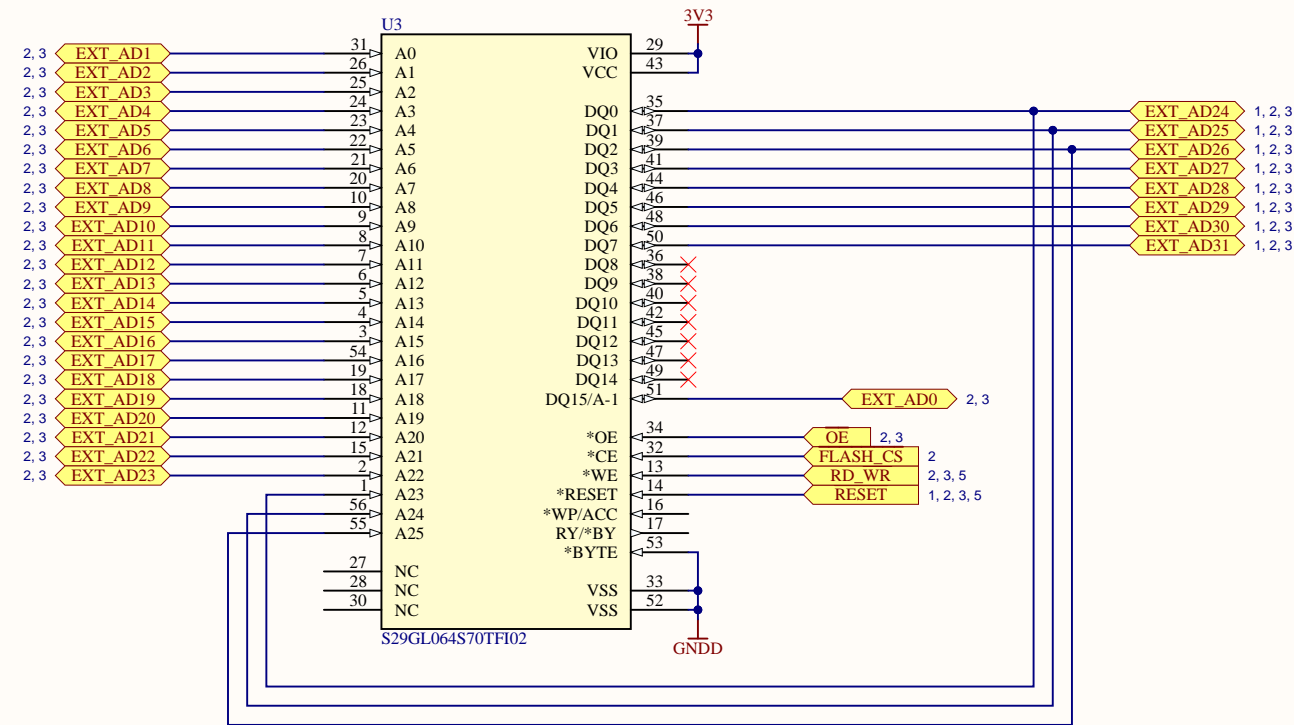
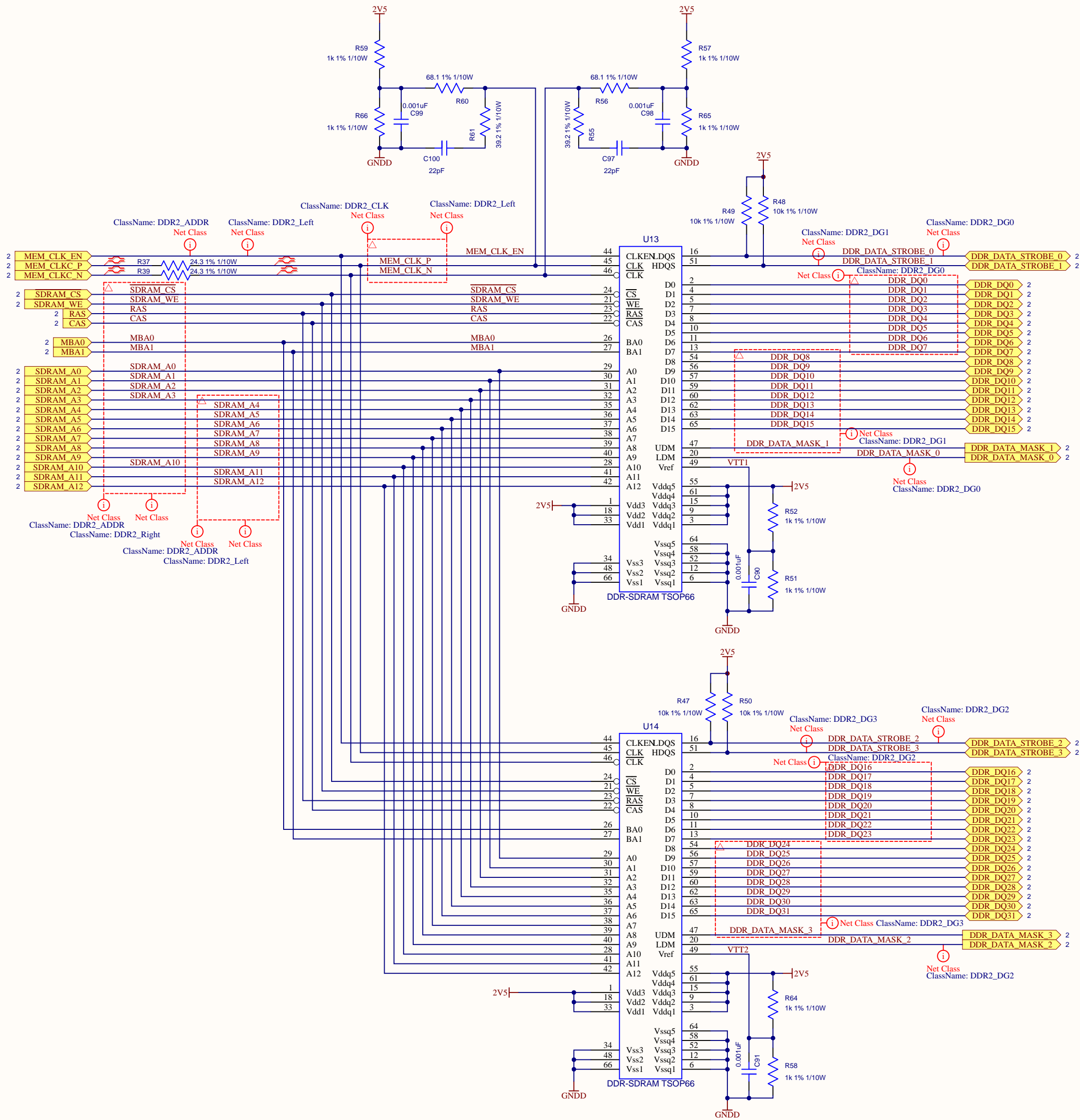






X_INTRPT





DELTA

COMPUTER SYSTEMS
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(360) 254-8688
deltamotion.com

Project Name: **RMC75E**

Part Number: **EAA0700**

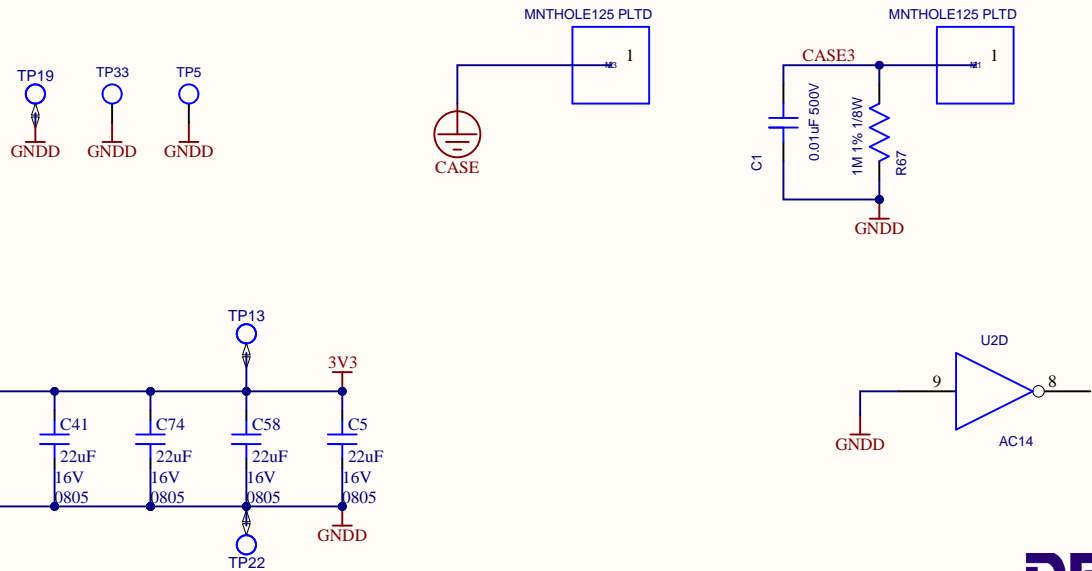
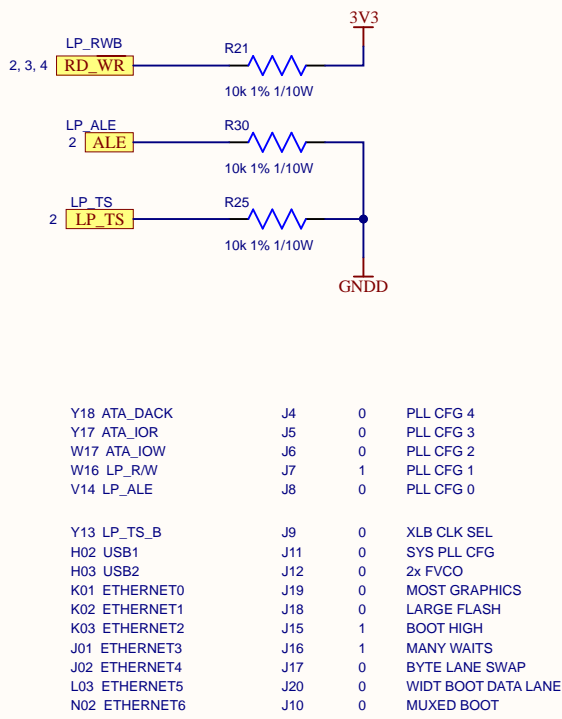
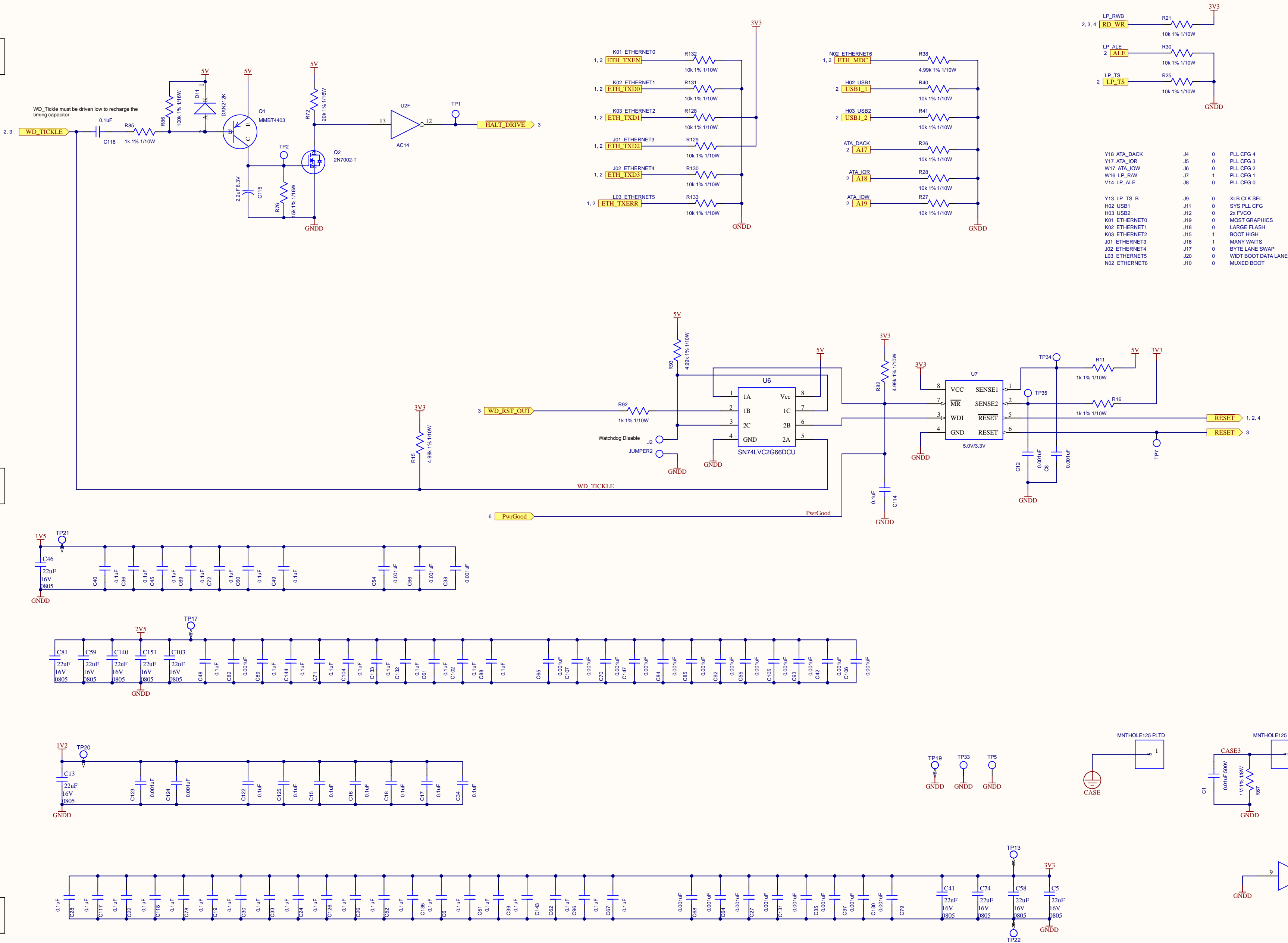
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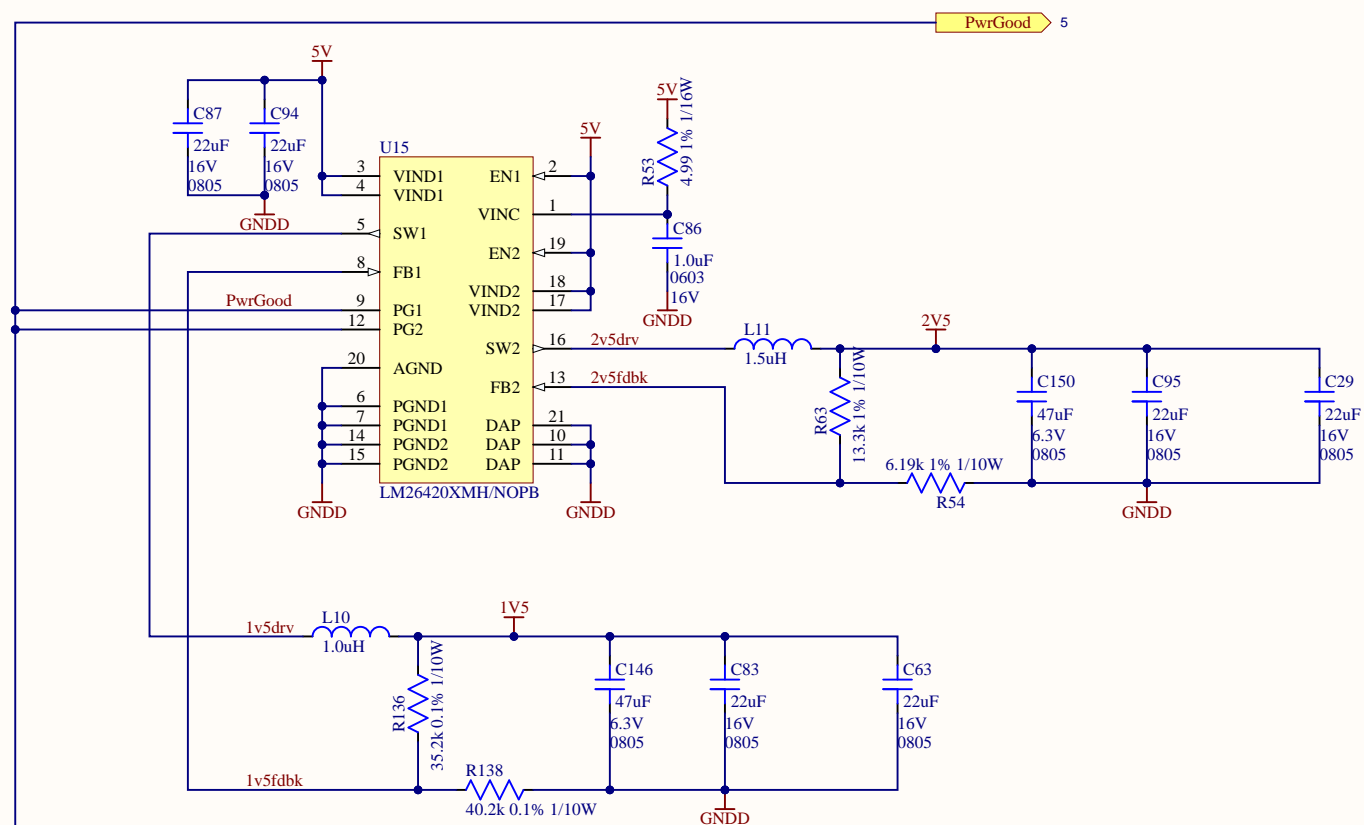
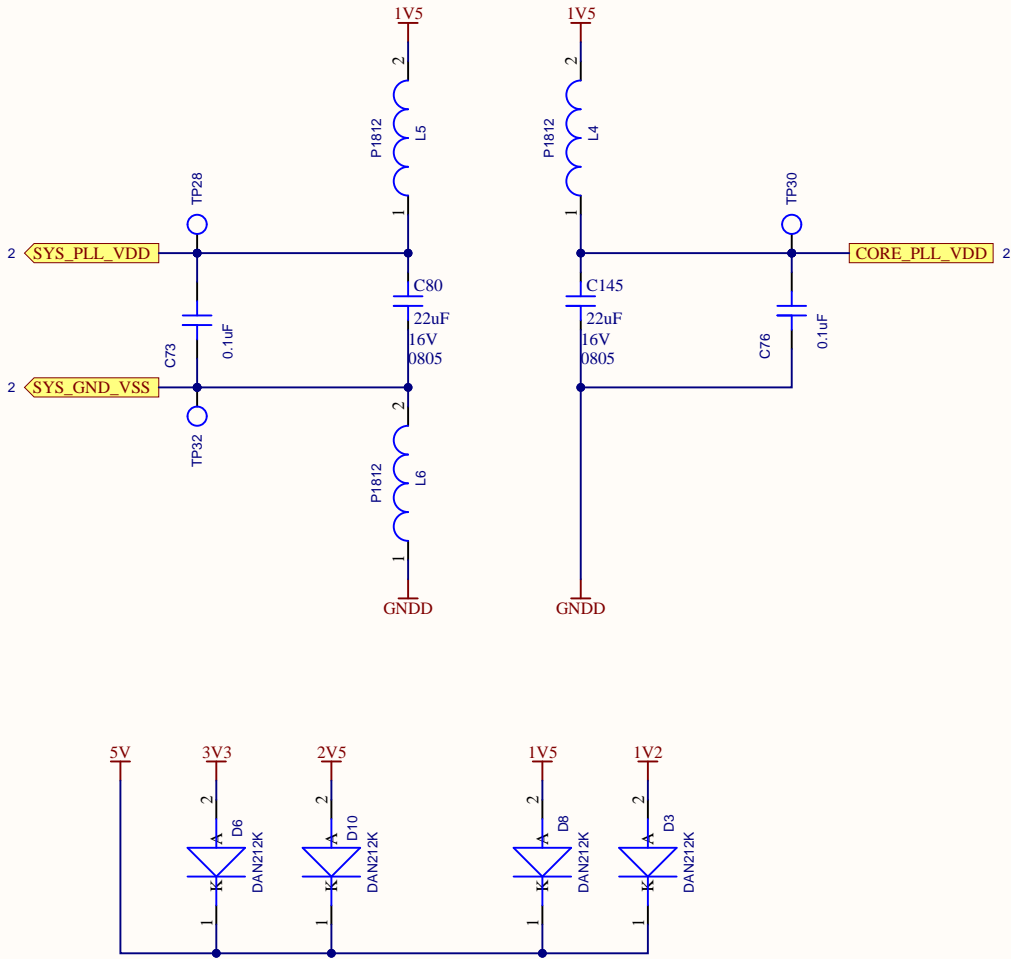
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Rev: **3.2A**

Date: **2/16/2023**

Sheet **4** of **7**





In rev 2.x, the 1.8V power rail was removed from the design. This power rail also supplies 1.8V to the Expansion port. This is not being used by any of the existing Expansion modules at this time.

