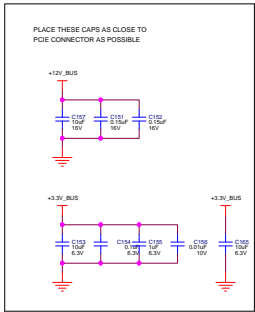

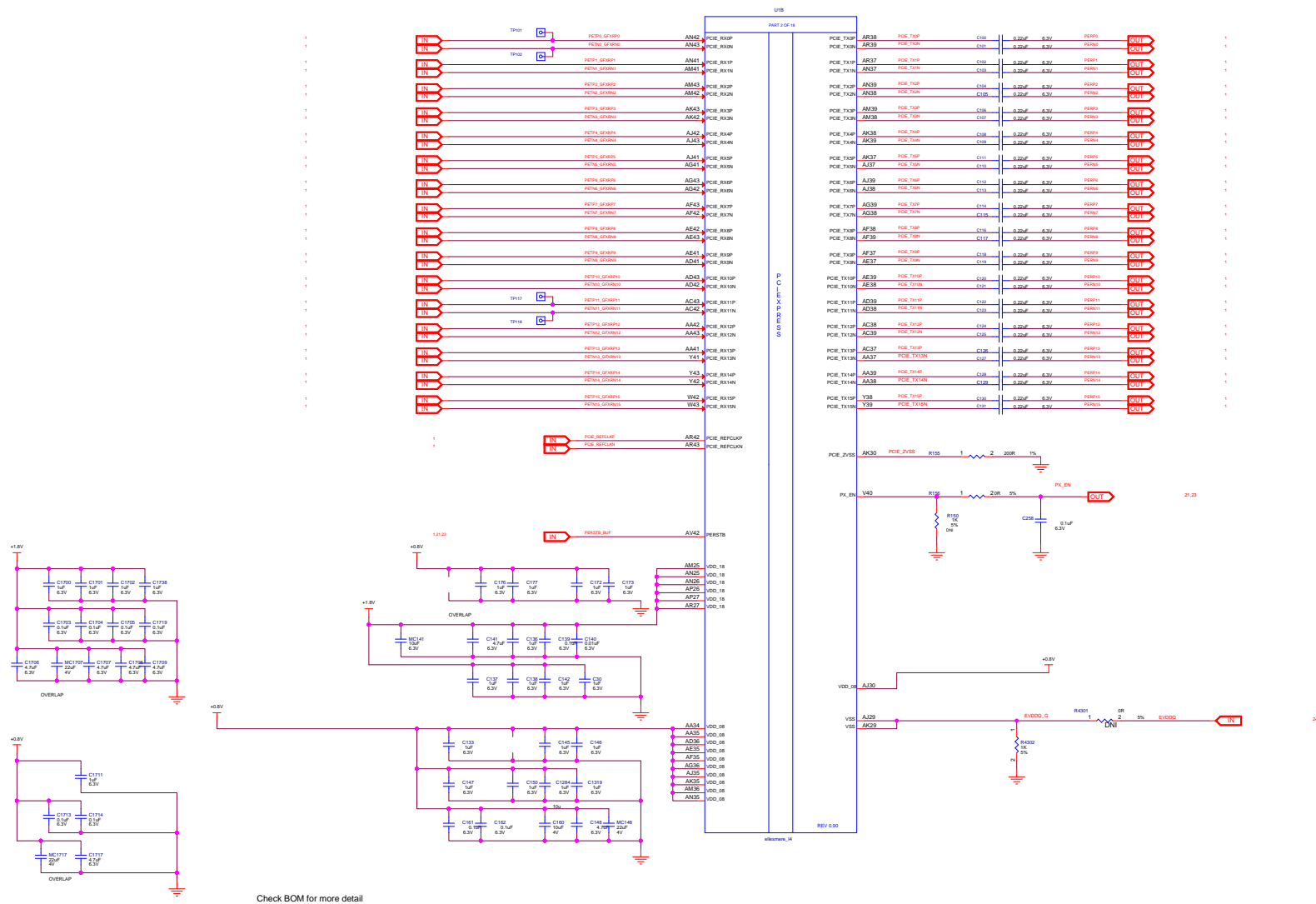


### (1) PCI-EXPRESS EDGE CONNECTOR

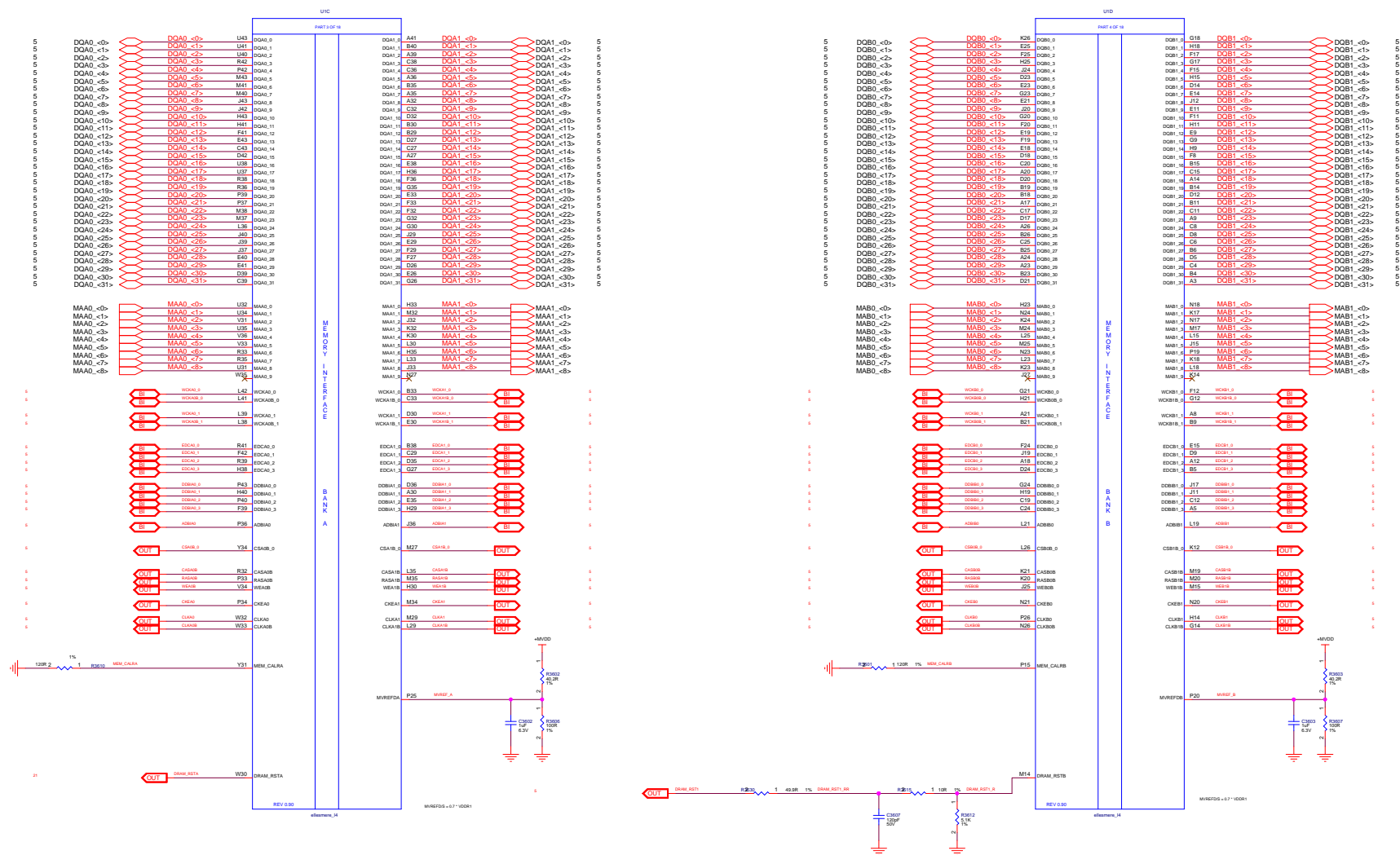


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## (2) ELLESMERE PCIE INTERFACE



### (3) ELLESMERE MEM INTERFACE CH A/B

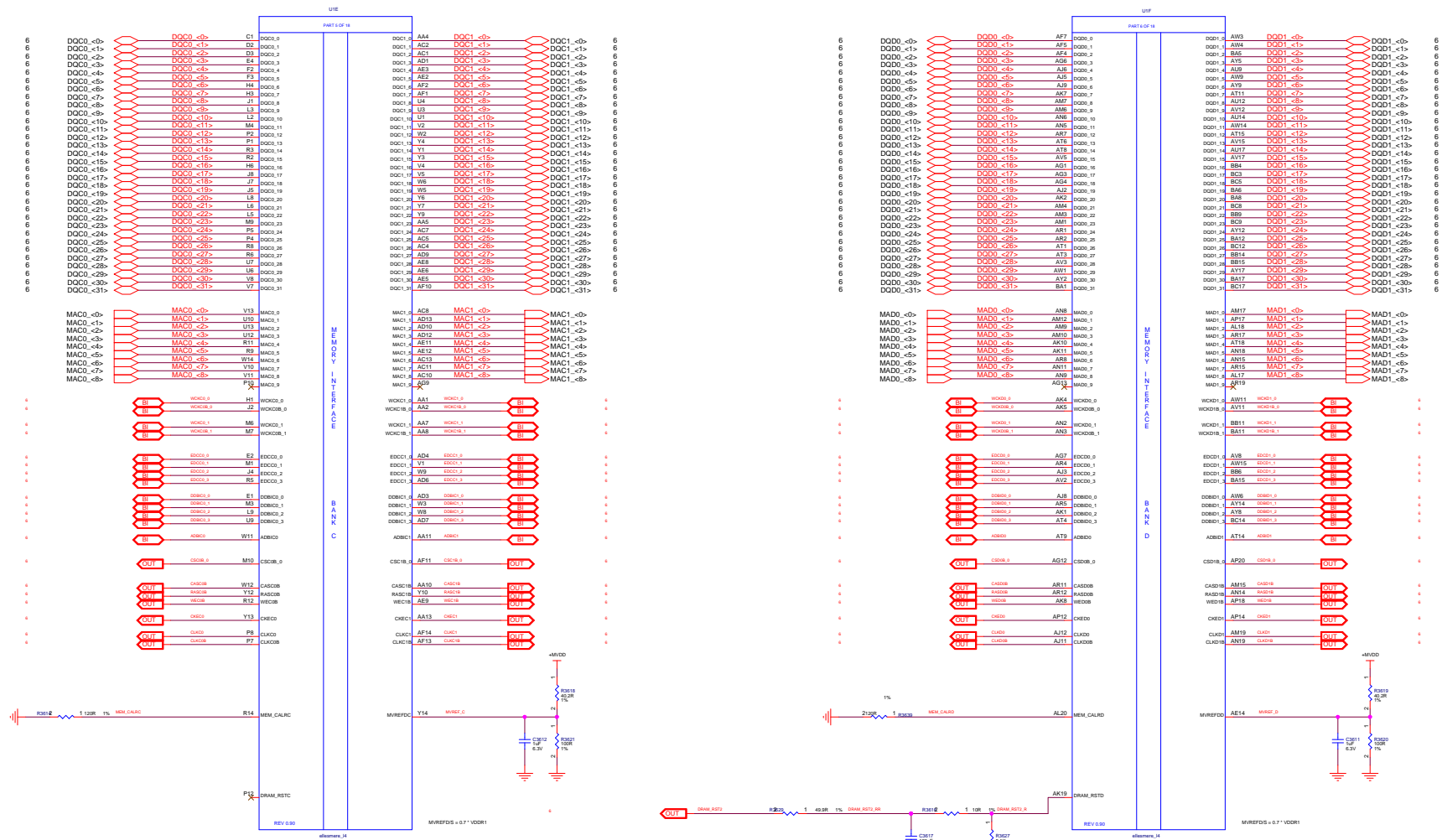


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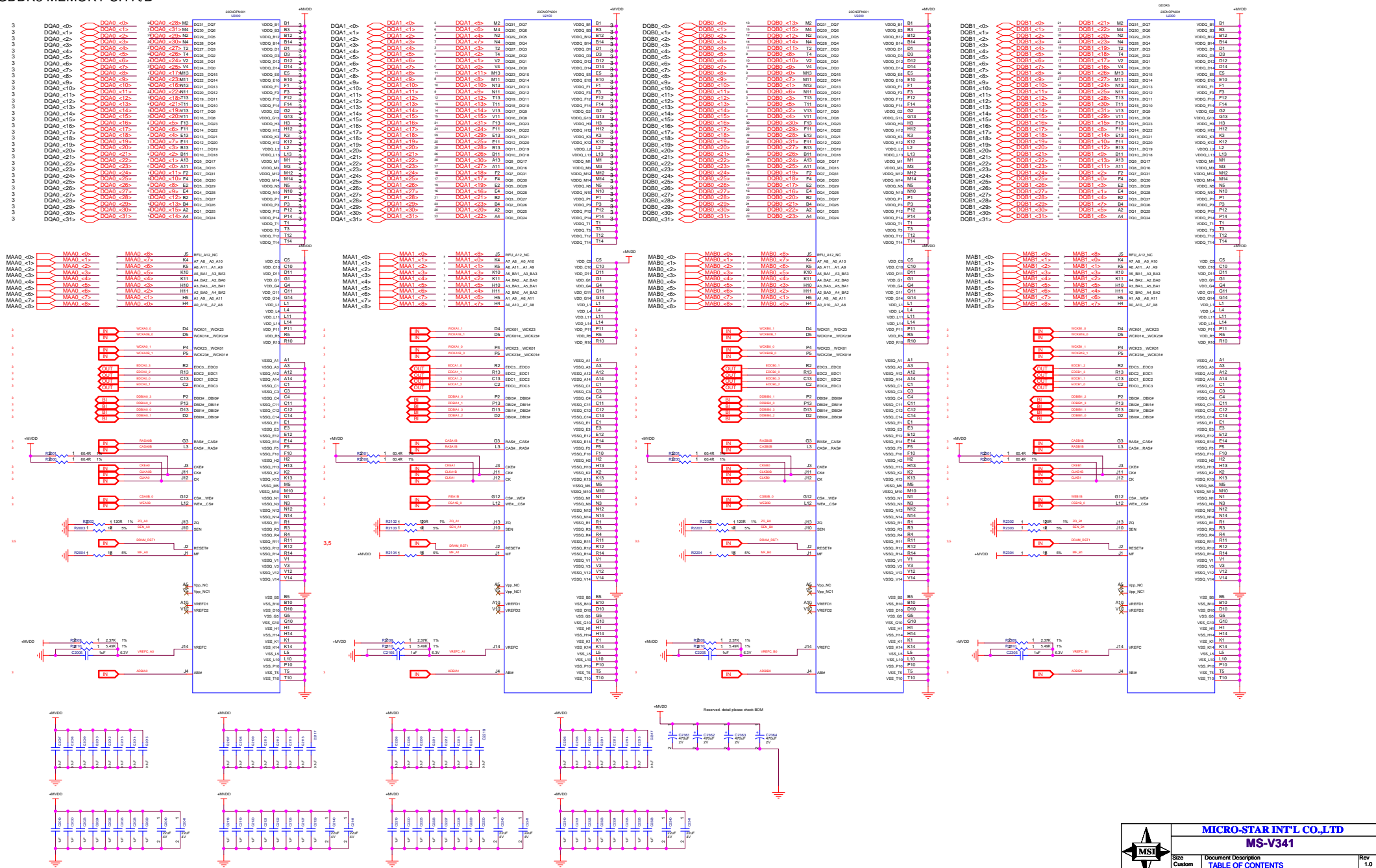
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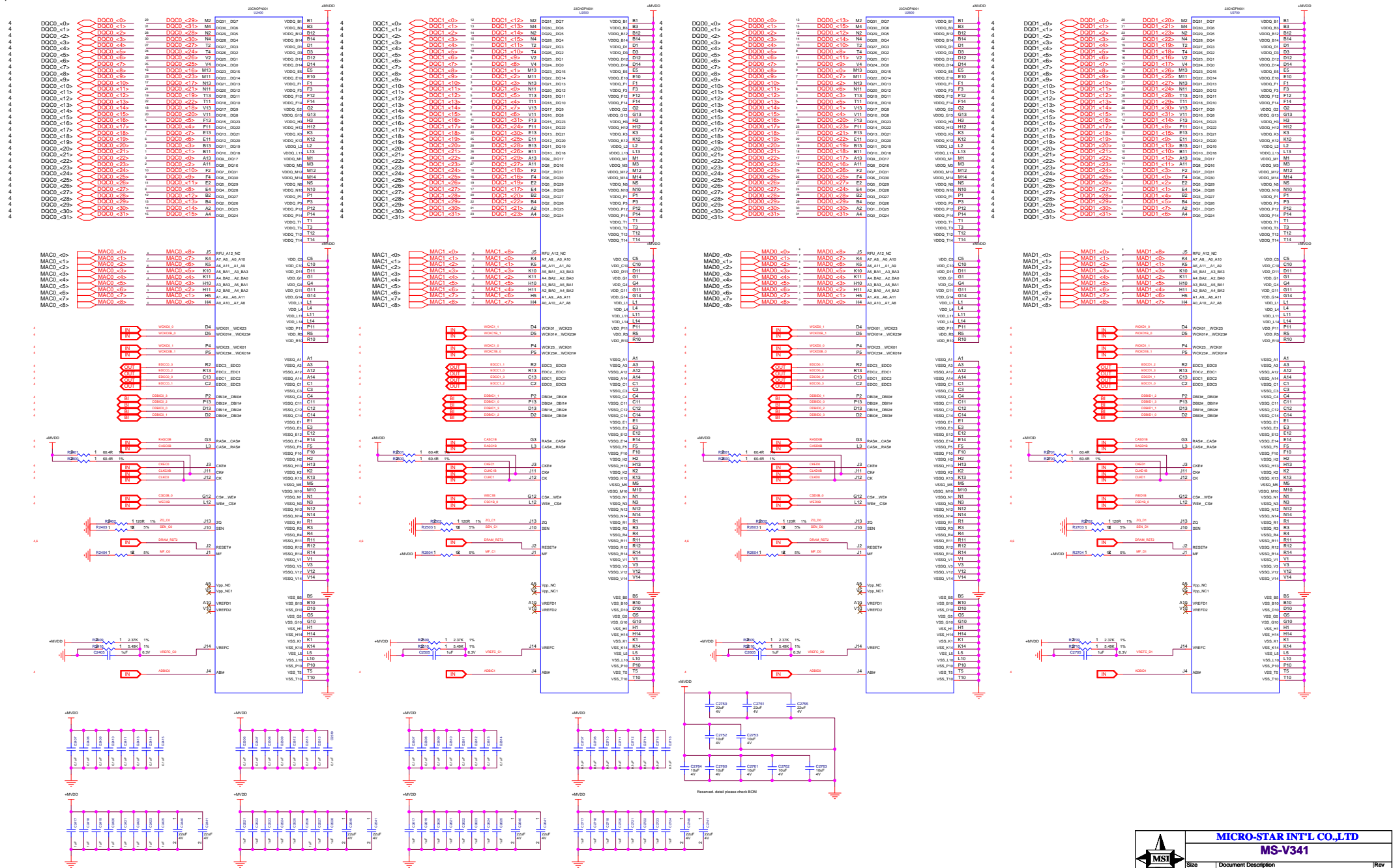
## (4) ELLESMERE MEM INTERFACE CH C/D



(5) GDDR5 MEMORY CH A/B



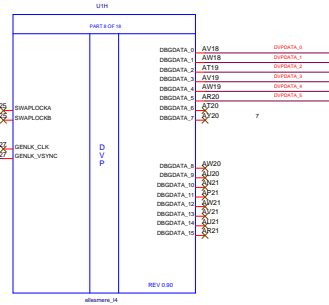
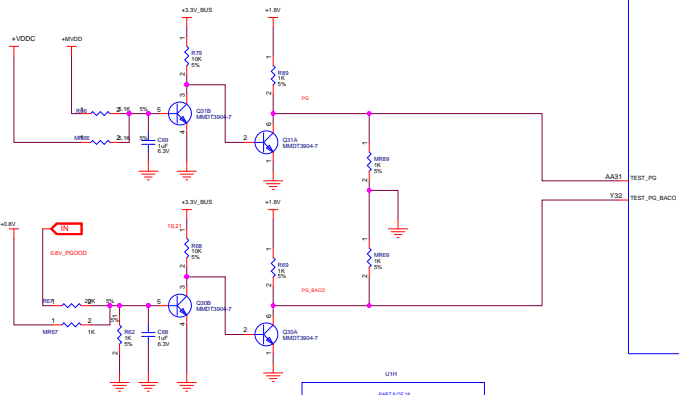
(6) GDDR5 MEMORY CH C/D



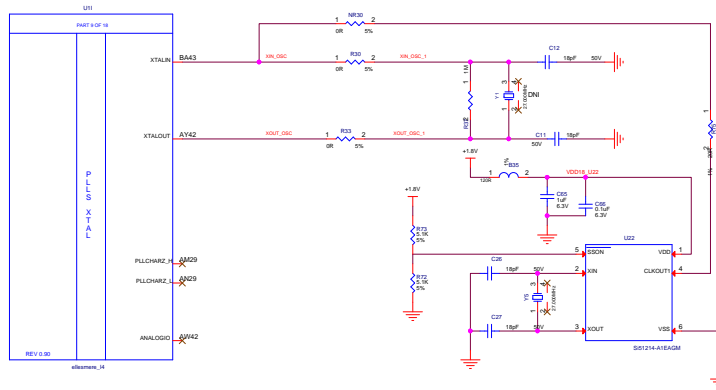
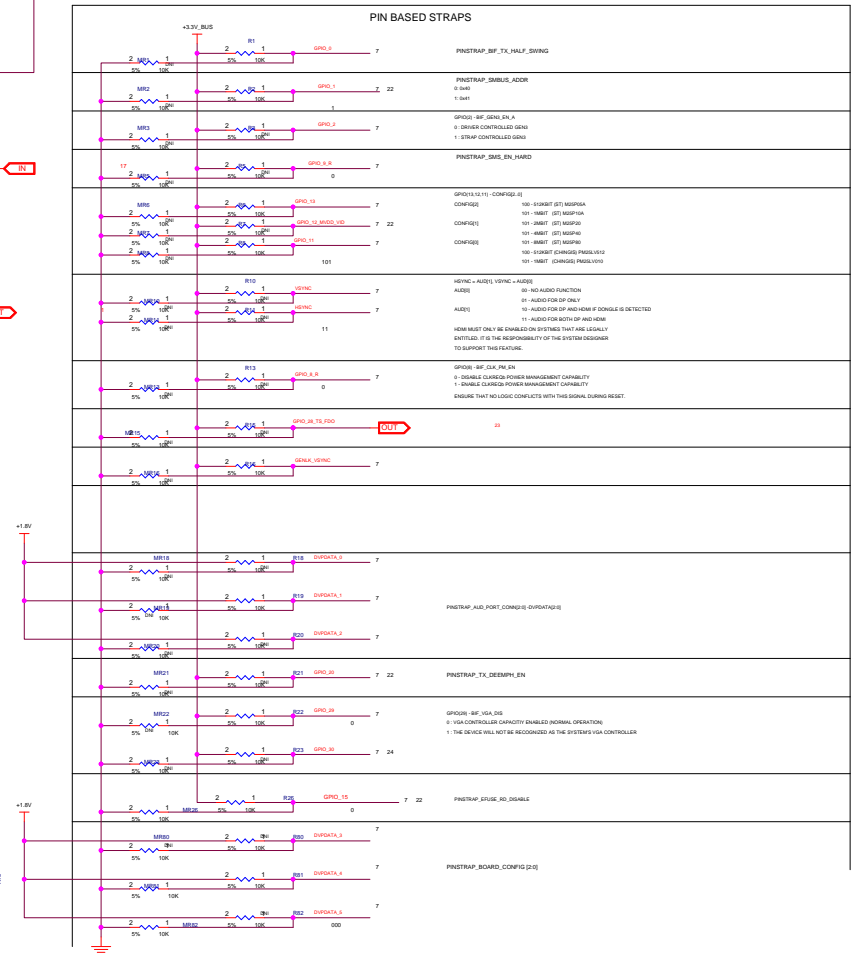
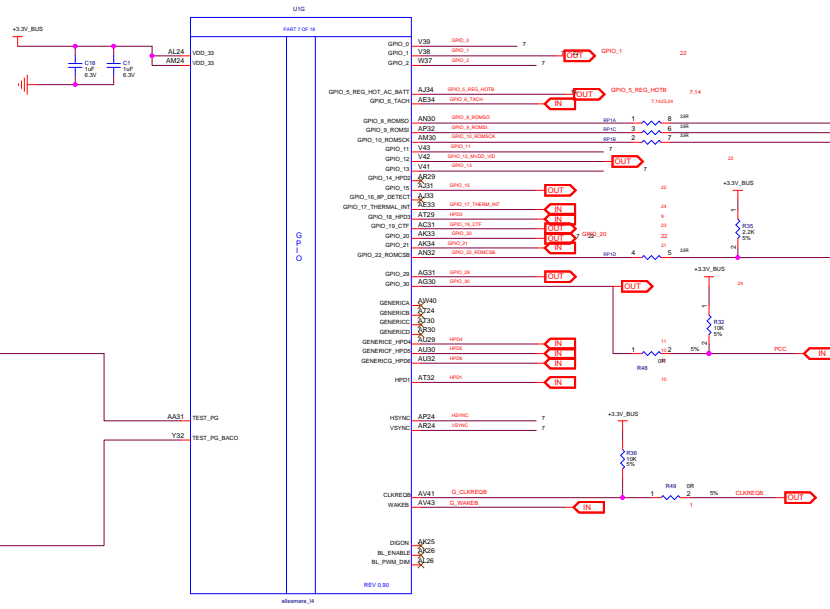
(7) ELLESMERE GPIO STRAP CF XTAL

SCL/SDA BUS:		
QC ADDRESS	FUNCTION	DEVICE

QC ADDRESS	FUNCTION	DEVICE
0x08	EXT TEMP SENSOR	LM96063



remove J2/J3

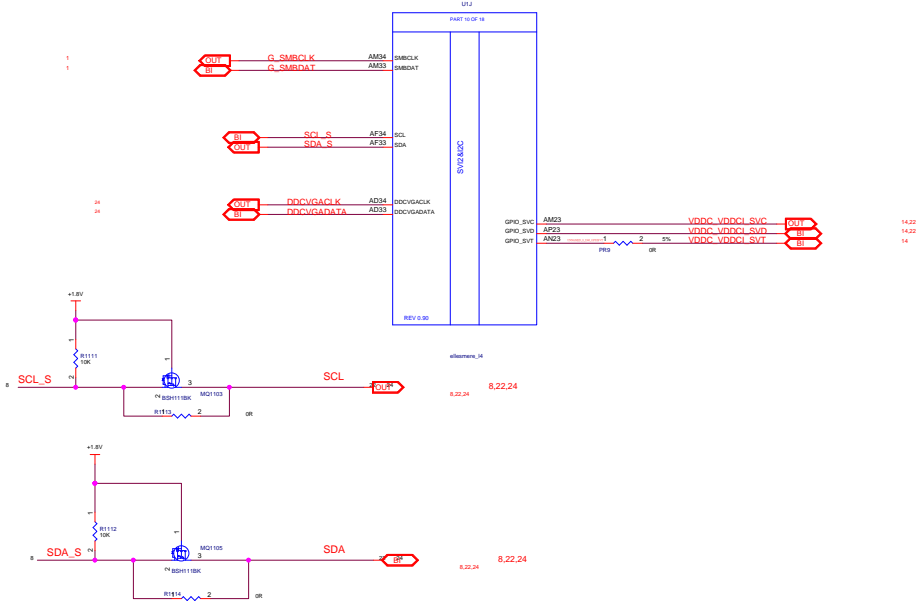


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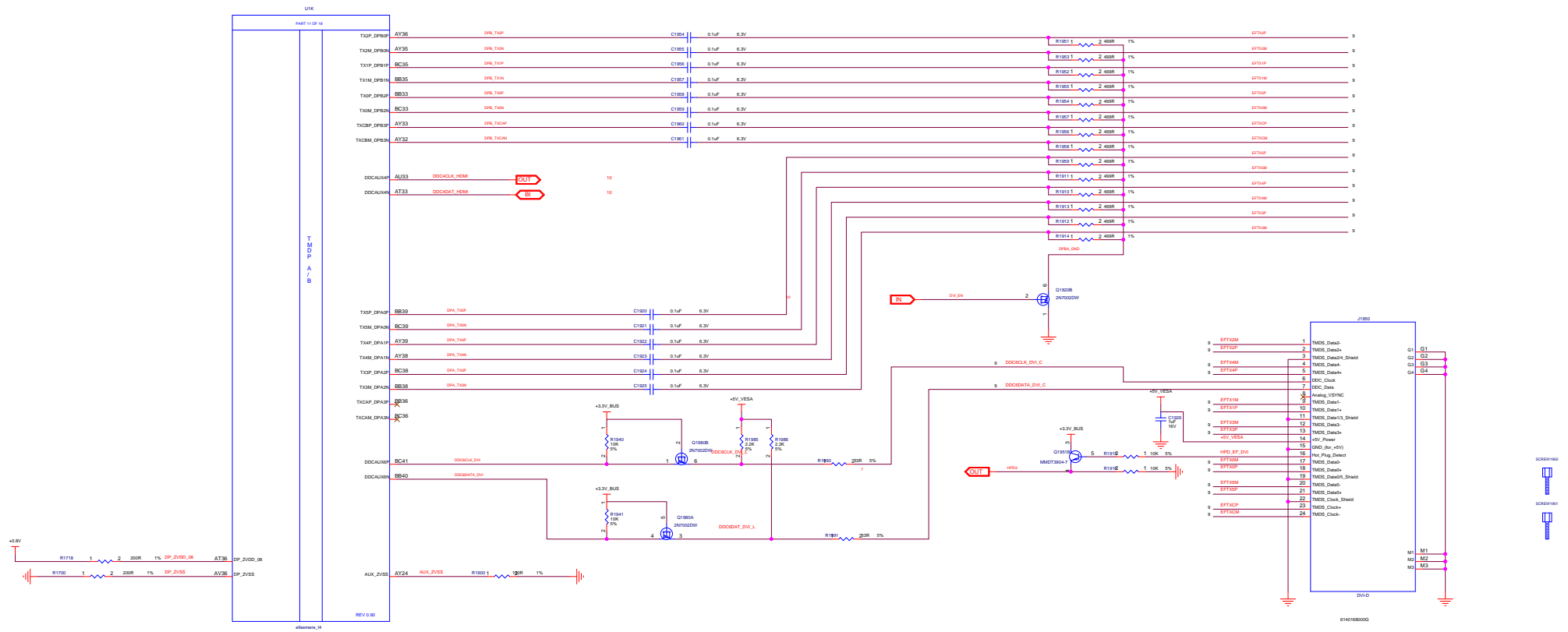
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(8) ELLESMERE DAC1 LOCK

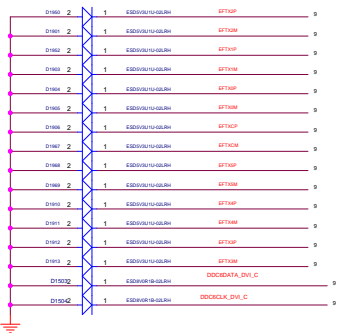




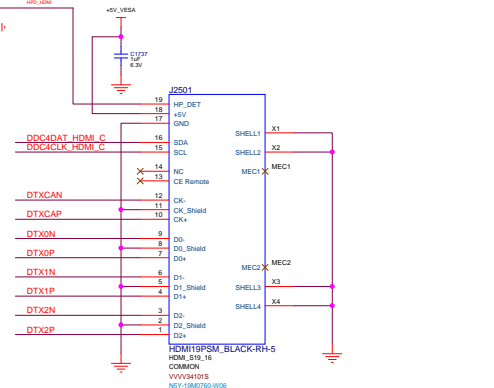
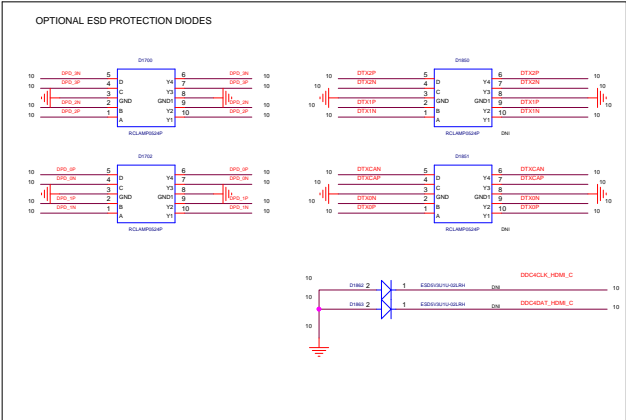
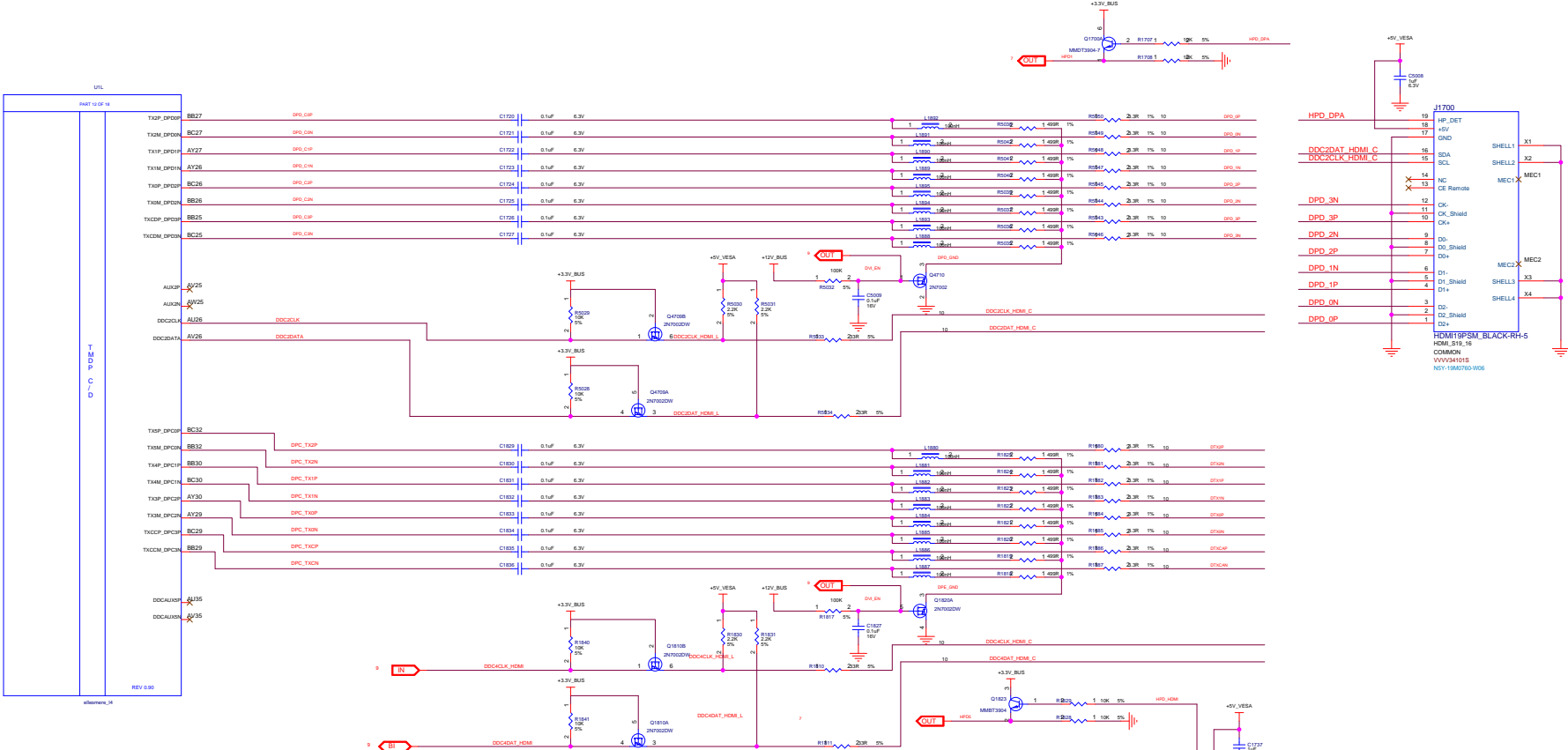
(9) ELLESMERE TMDP A/B

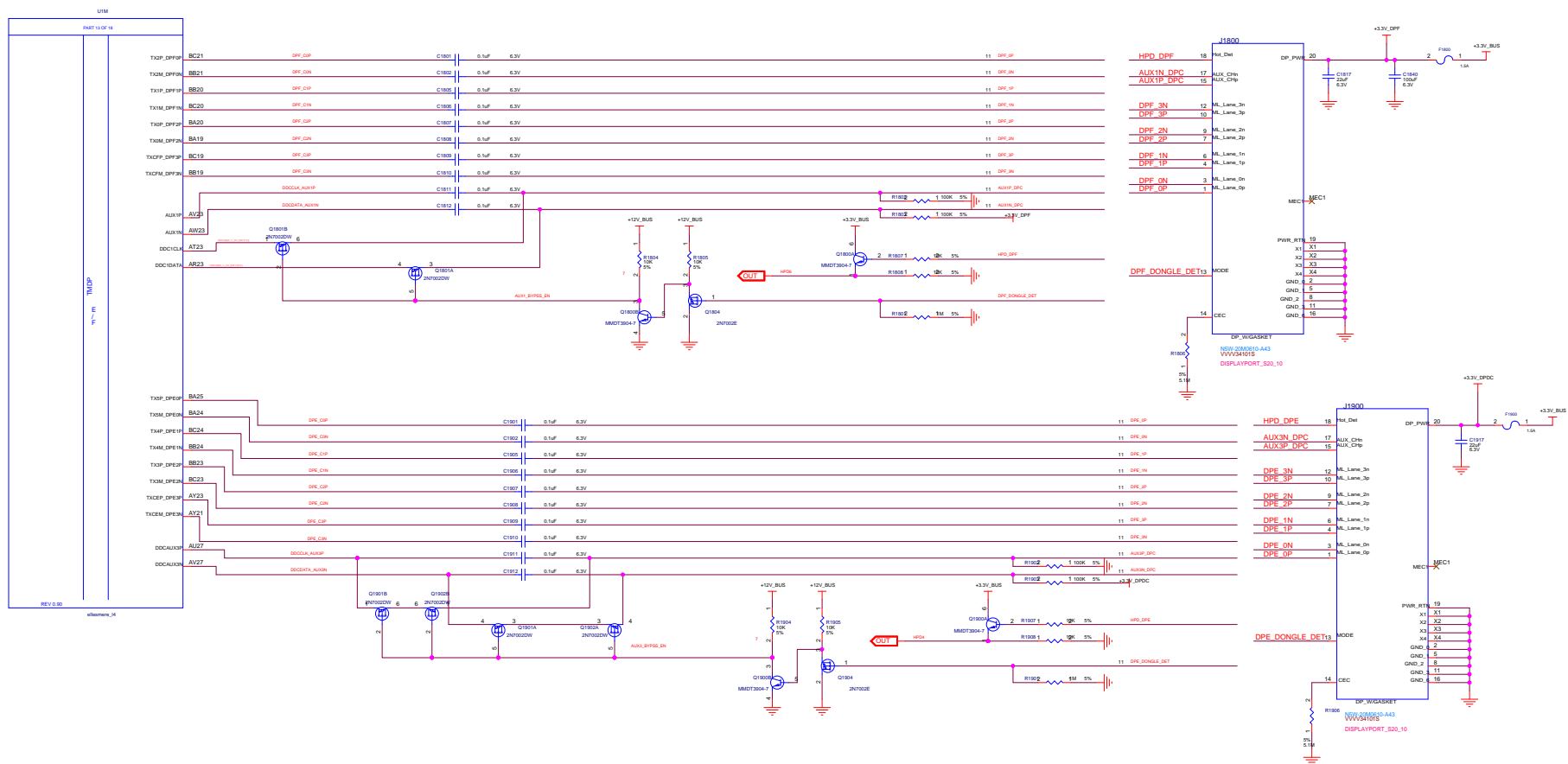


### OPTIONAL ESD PROTECTION DIODES

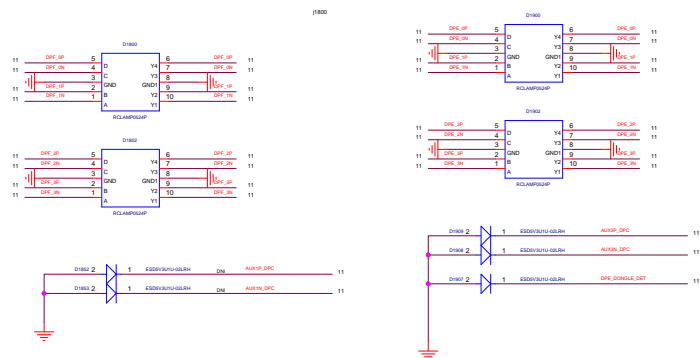


(10) ELLESMERE TMDP C/D

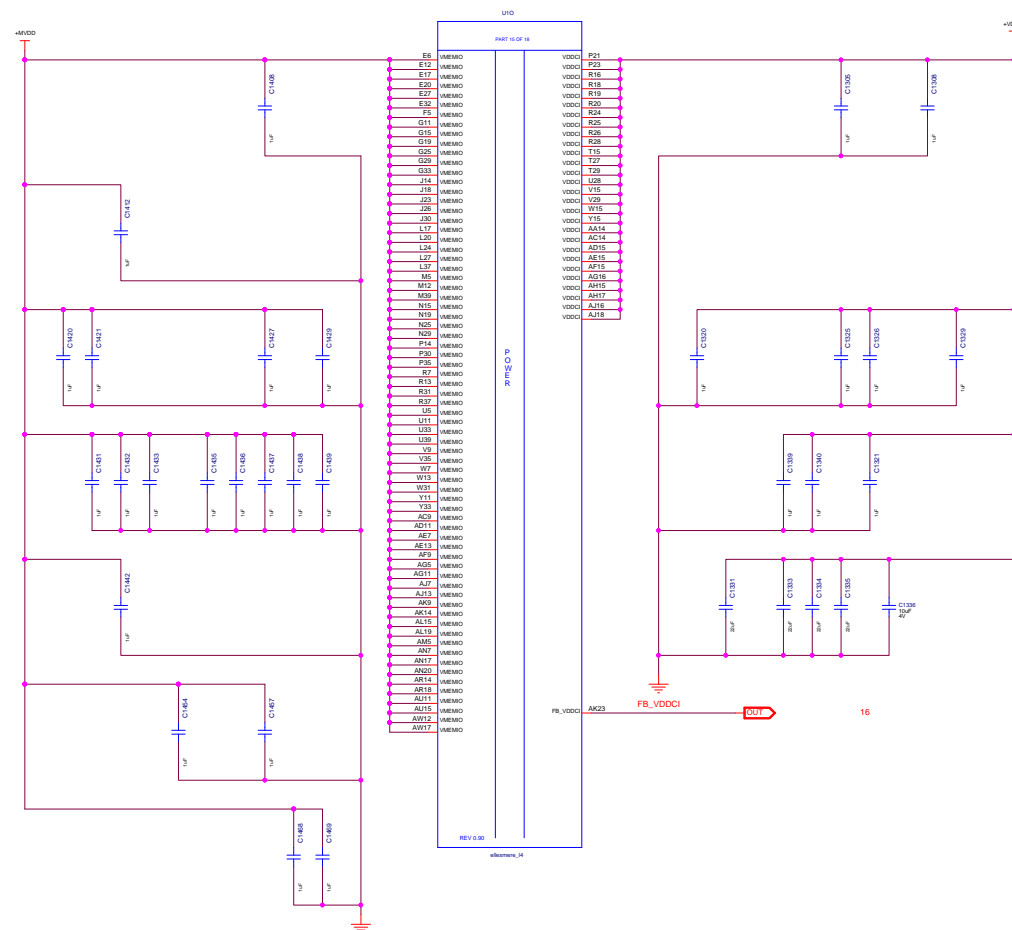
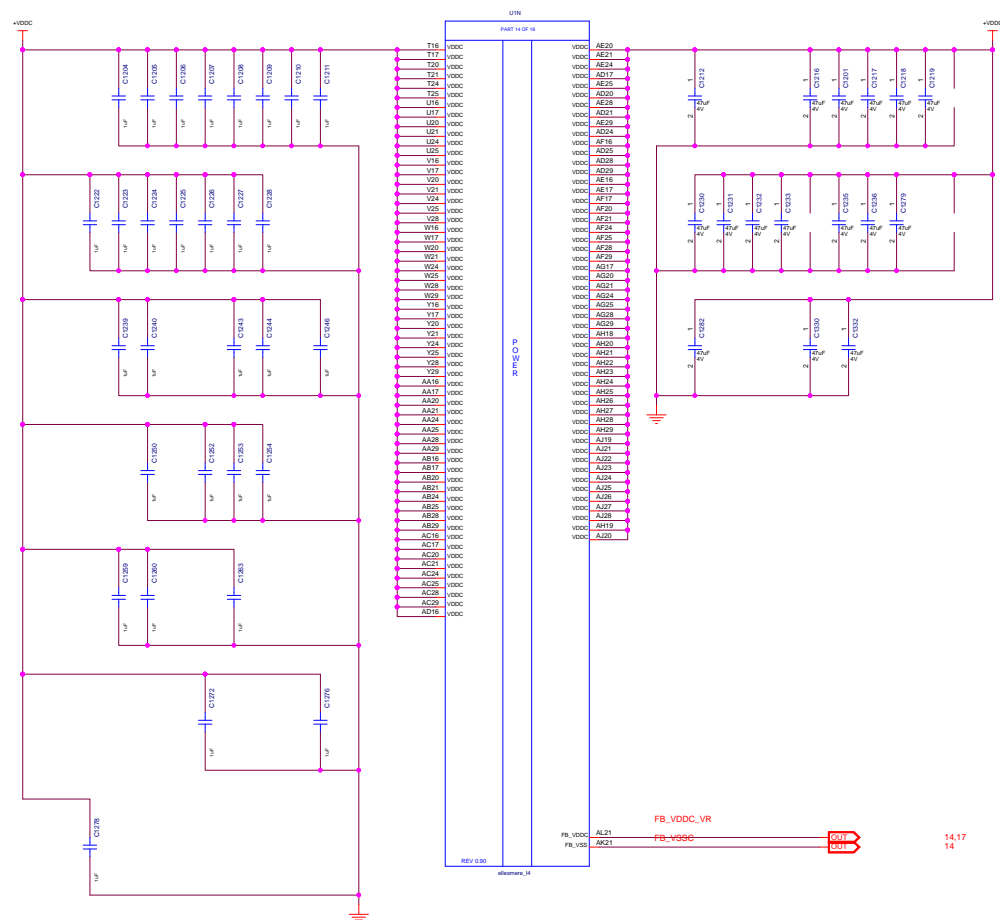


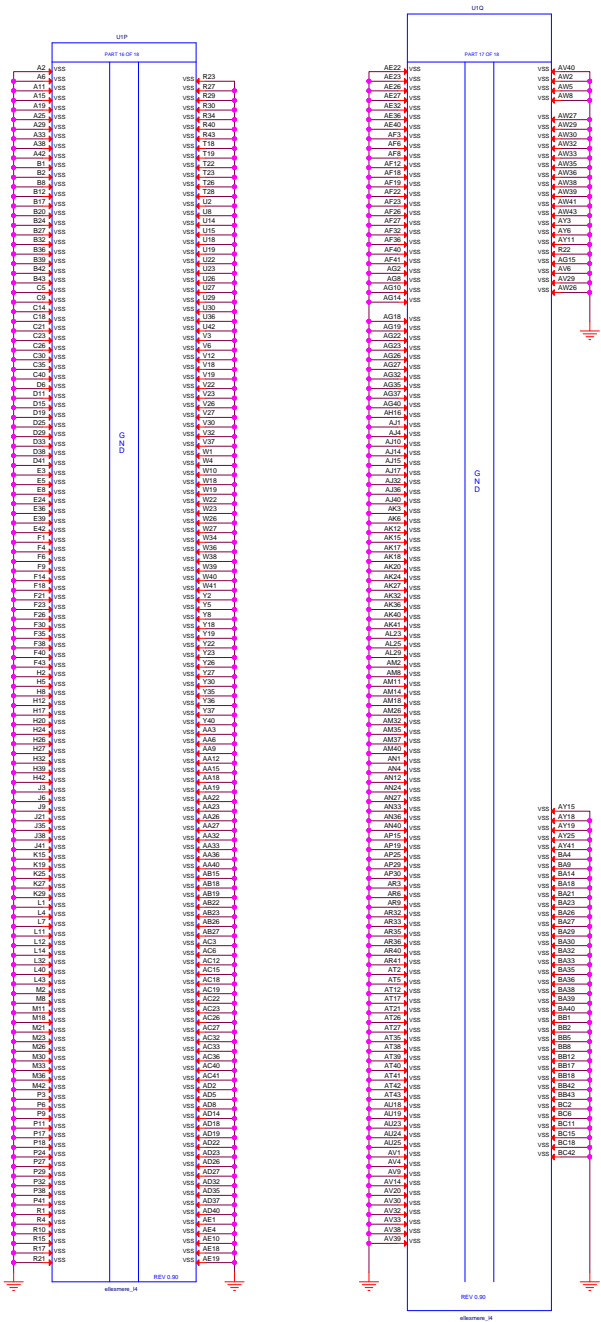


### OPTIONAL ESD PROTECTION DIODES



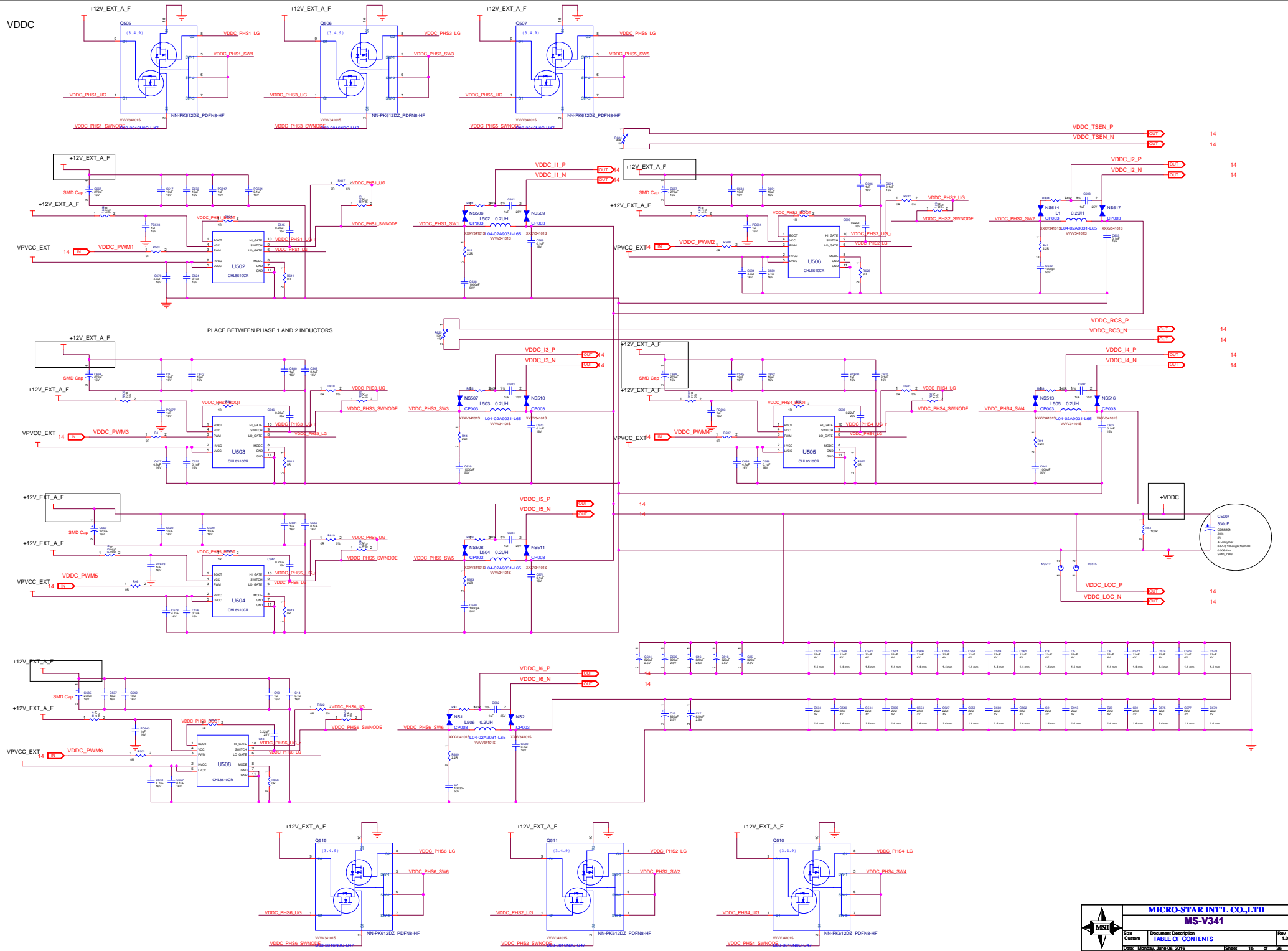
(12) ELLESMERE POWER





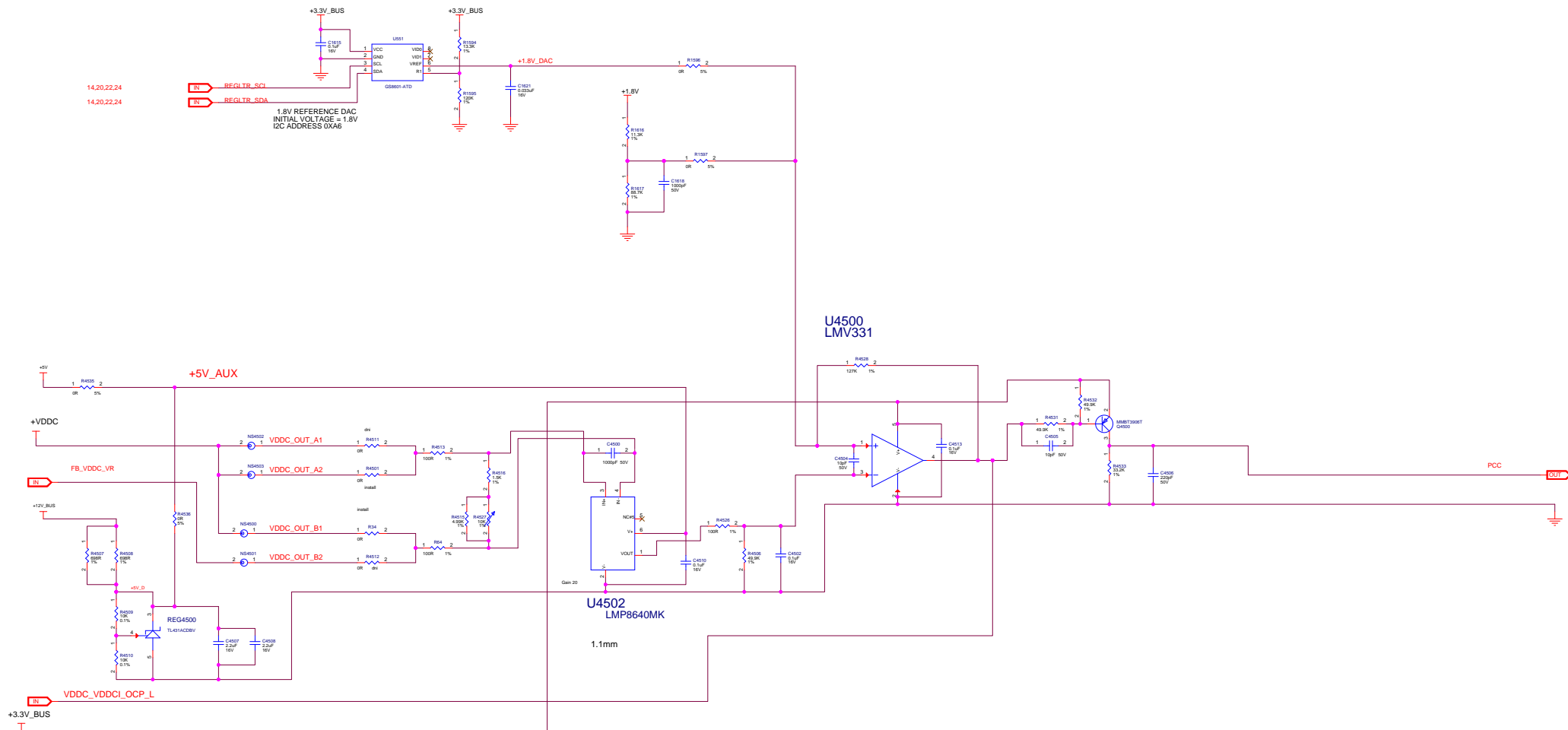


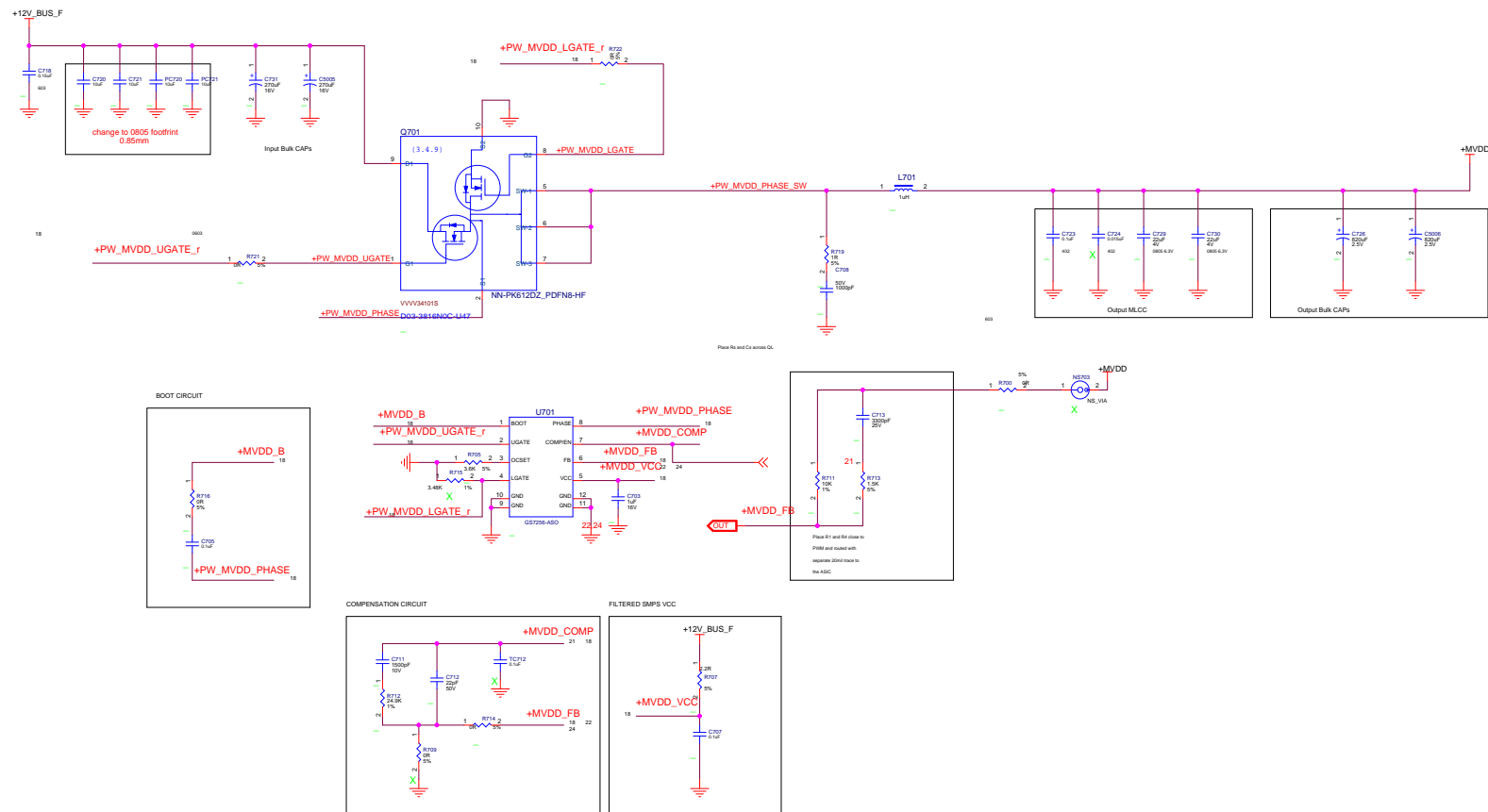
VDDC











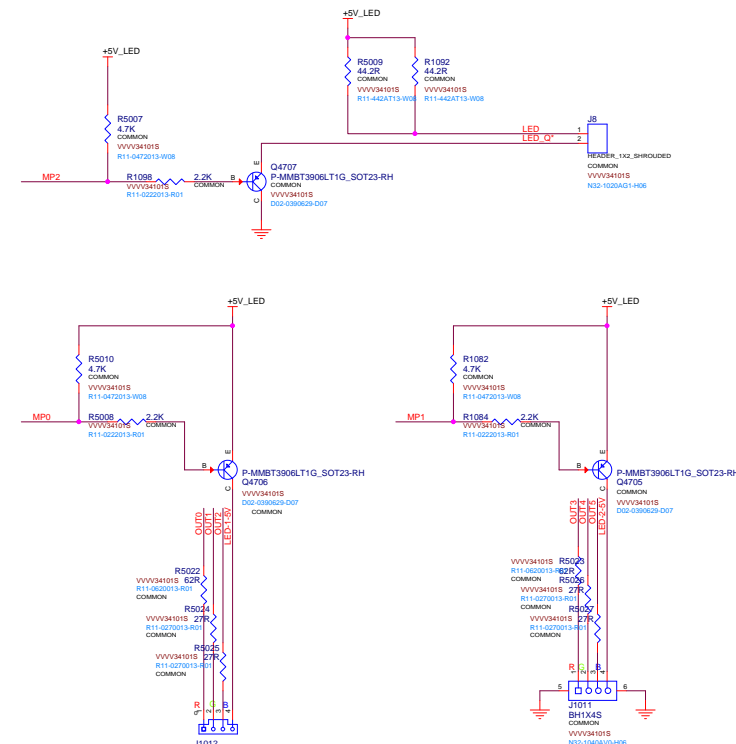
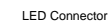
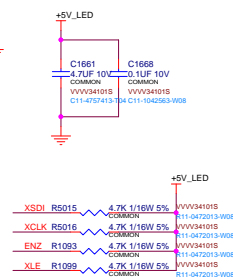
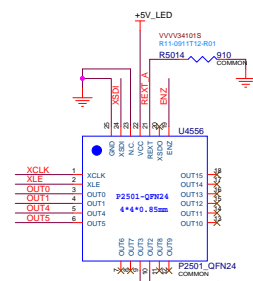
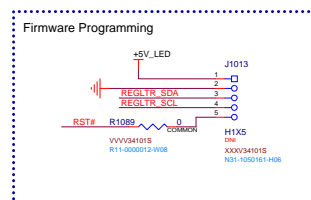
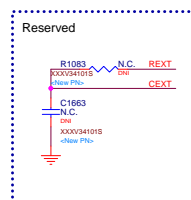
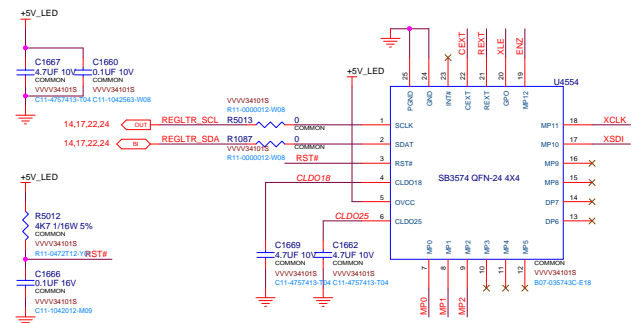
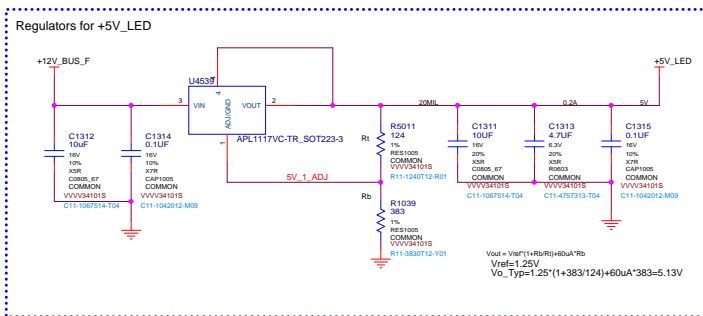
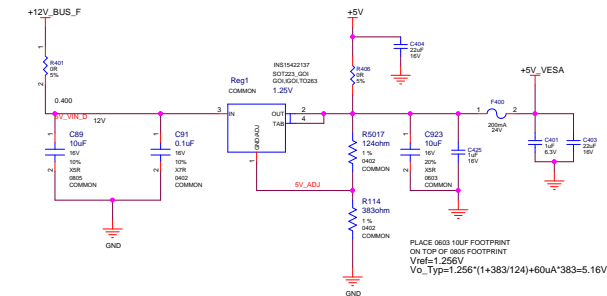
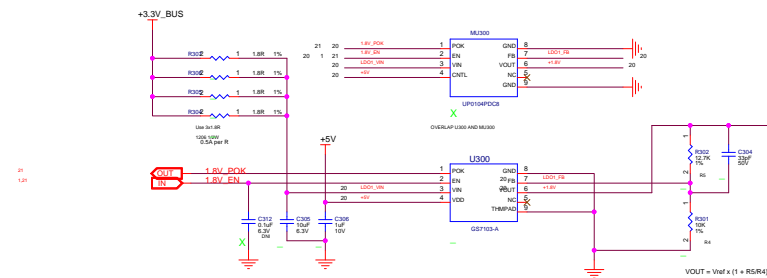
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(18) SMALL RAIL REGULATORS , LED\_CONTROLLER\_ENE3574

LDO #1: VIN = 3.0V TO 3.6V MAX VOUT = +1.8V +/- 2% IOUT = 1.3A RMS MAX  
PCB: 50 TO 70mm SQ. COPPER AREA FOR COOLING

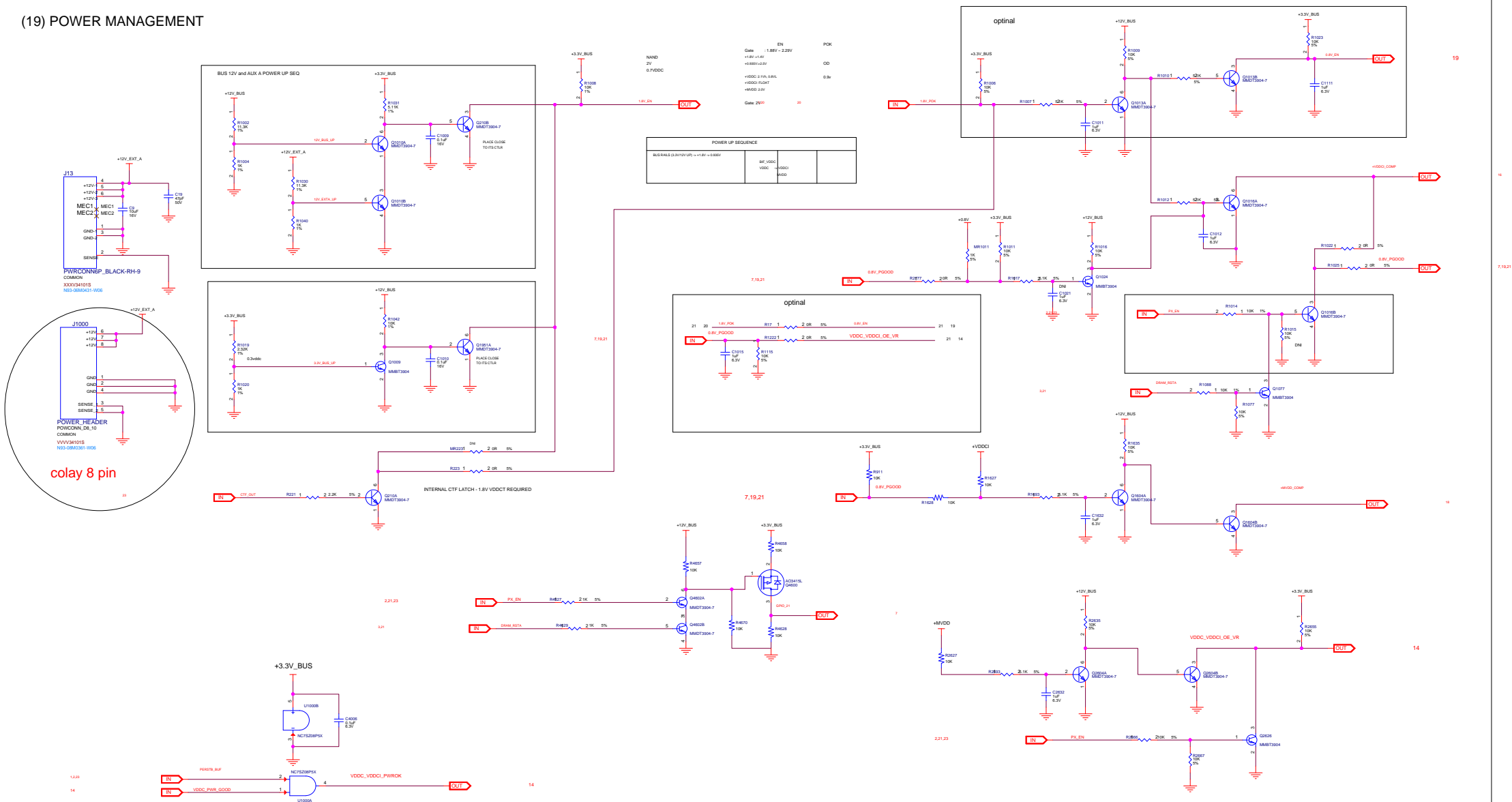
REGULATOR FOR +5V RAILS  
IOUT MAX = 150mA

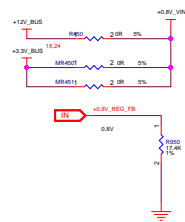
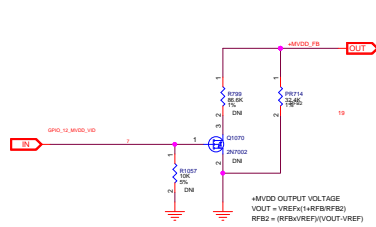
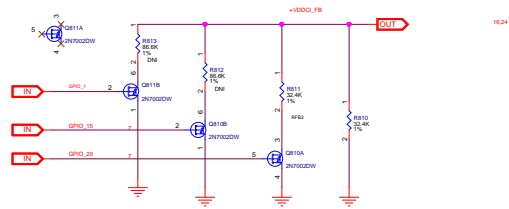
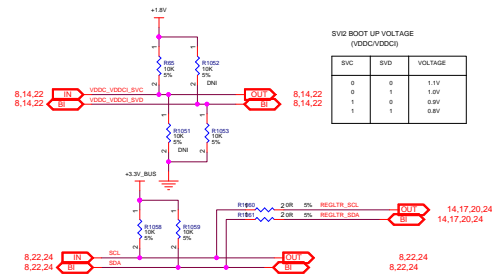


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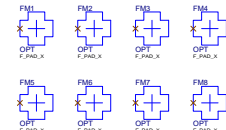
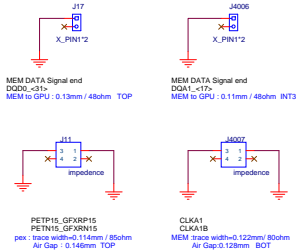
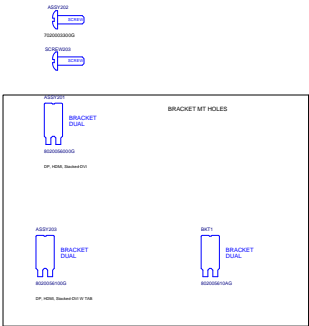
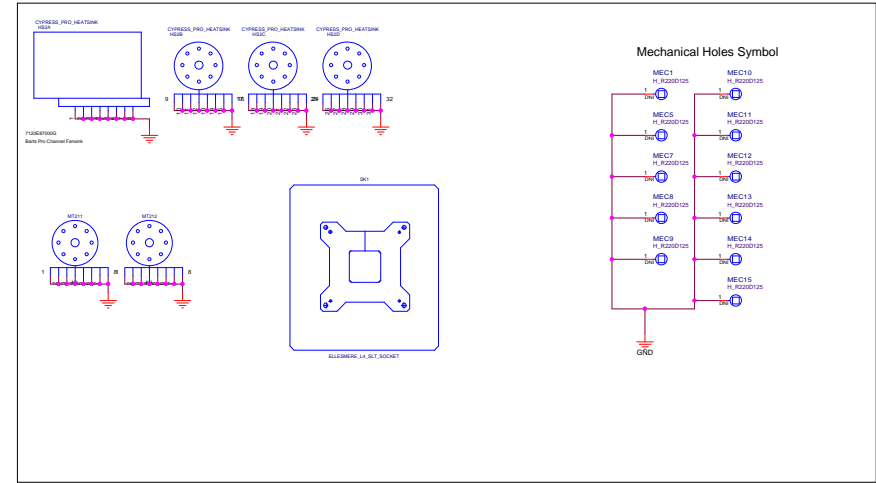
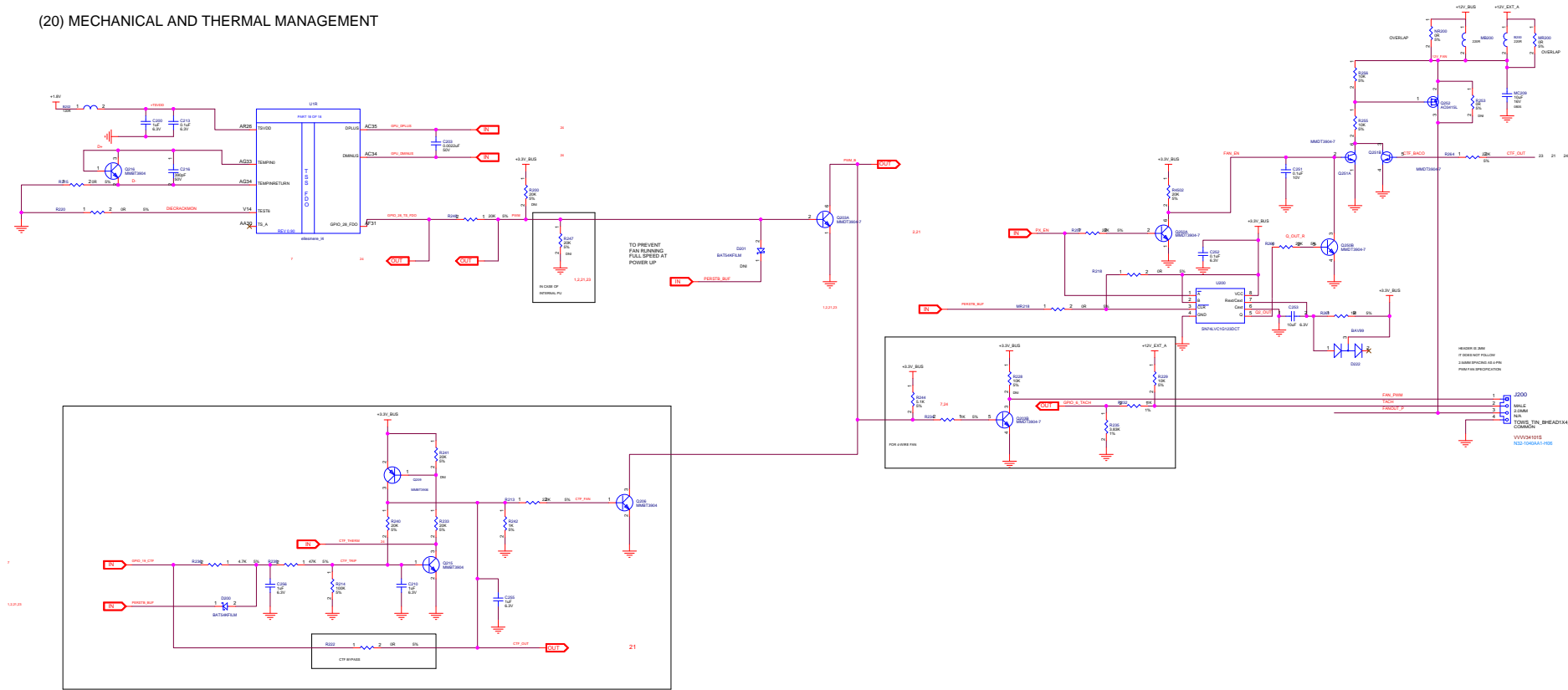
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## (19) POWER MANAGEMENT

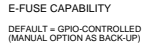




(20) MECHANICAL AND THERMAL MANAGEMENT



## (21) DEBUG CIRCUITS



## DIGITAL POTS

## DIGITAL POTS

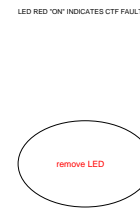


## SWITCHES

remove SW

BYPASS/DISABLE CT

MAXIMIZE FAN



remove LED

LED GREEN "ON" INDICATES BACO MODE

LED ORANGE "ON" INDICATES MACO MODE

### VTMM - TEST CONNECTOR FOR VOLTAGE MEASUREMENTS



14,17,20,22  
14,17,20,22



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0	00A	00A0010	
1	00B	00B0010	1. Add EPD1 for 4pin LED 2. Update 0001: driver negative
2	00C	00C0010	00001: -- add series resistor R11880 ~R11887 -- add pull-down inductor L1880 ~L1887 remove C405, C403, VR405, C410, C414, R405

- Page7: remove J2,J3
- Page9: enable DVI
- Page10: DP change to HDMI
- Page15: change dual-N MOS
- Page16: change dual-N MOS
- Page18: change dual-N MOS
- Page20: Add LED circuit
- Page21: colay 8pin power connecter
- Page24: remove debug circuit