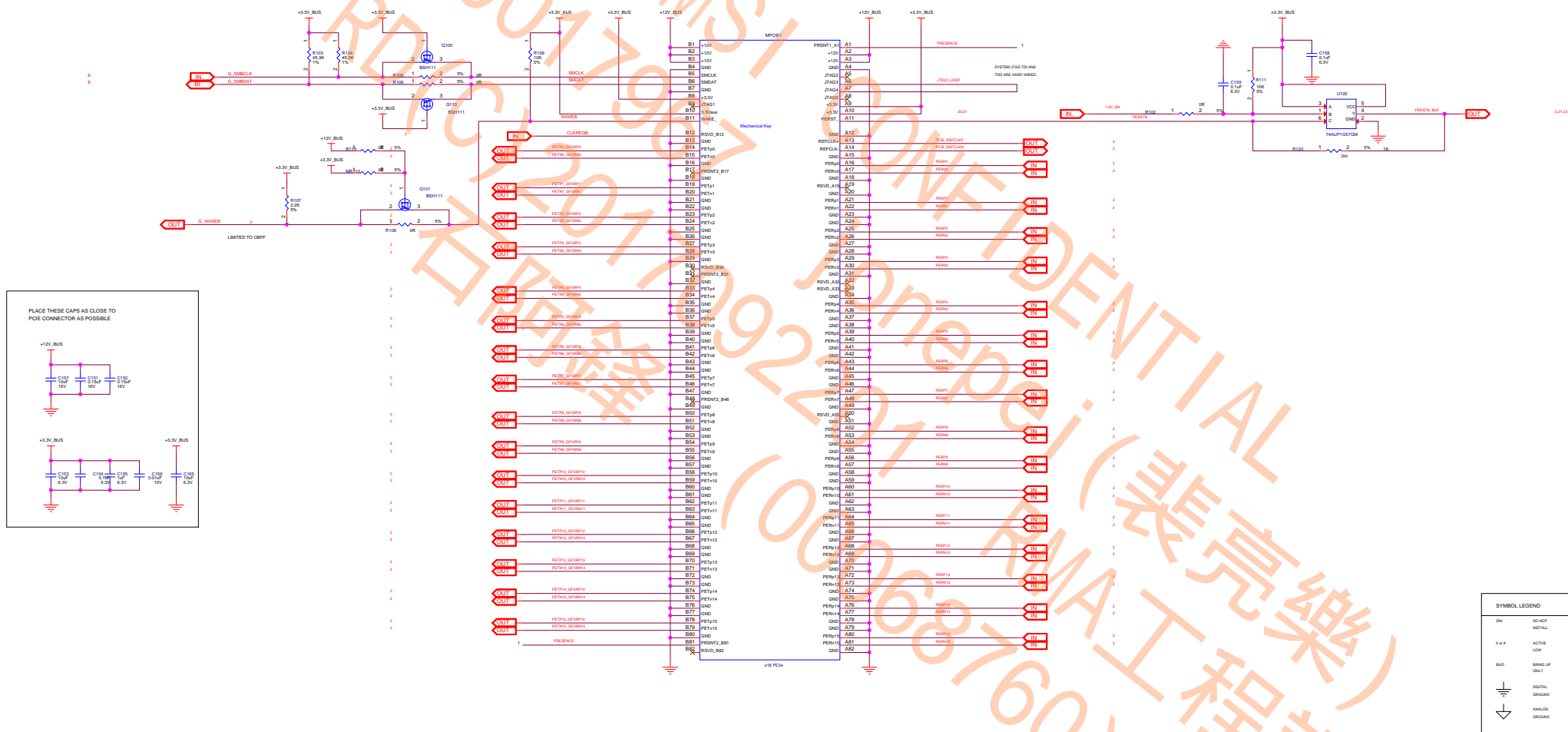
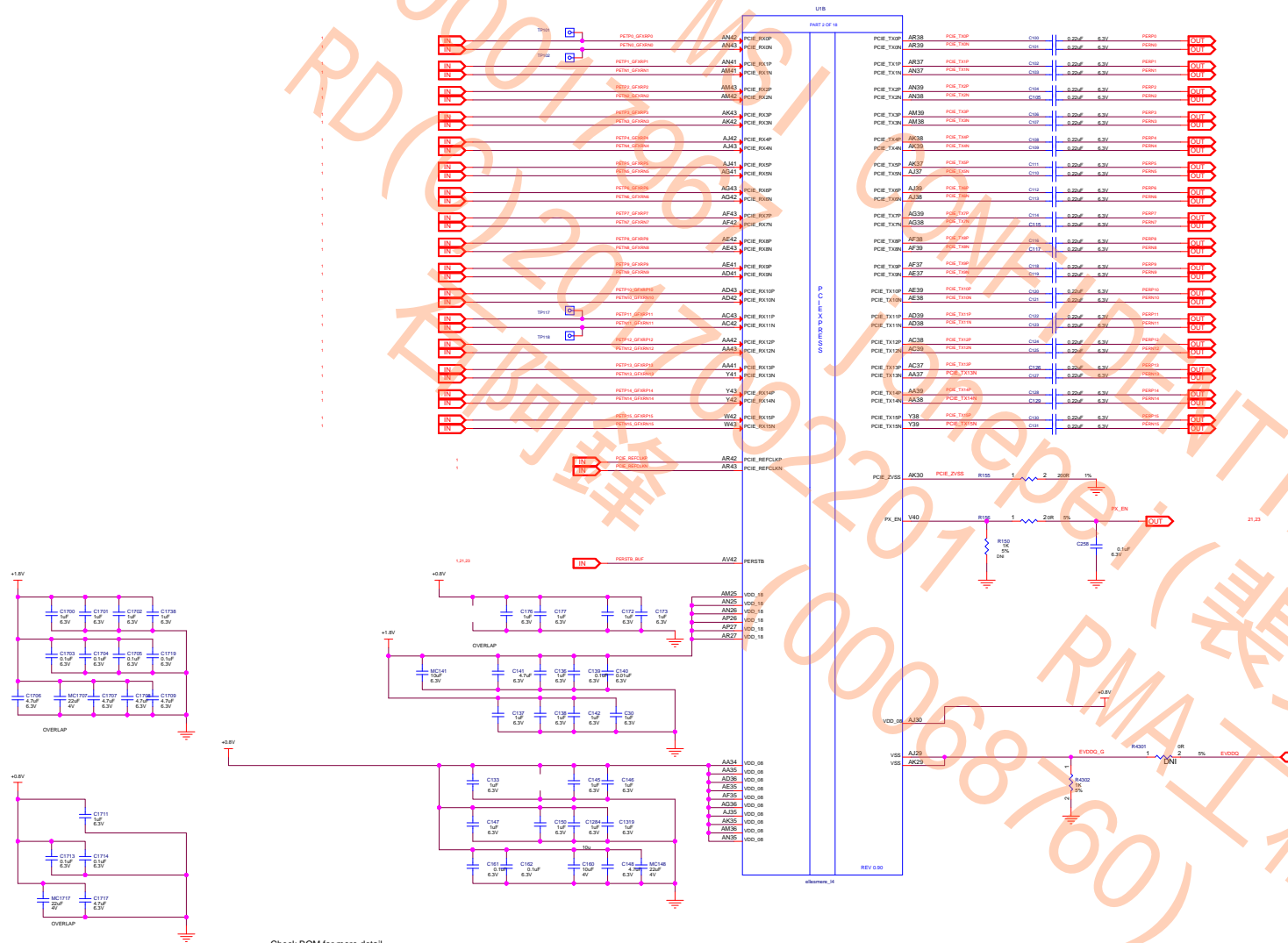


(1) PCI-EXPRESS EDGE CONNECTOR



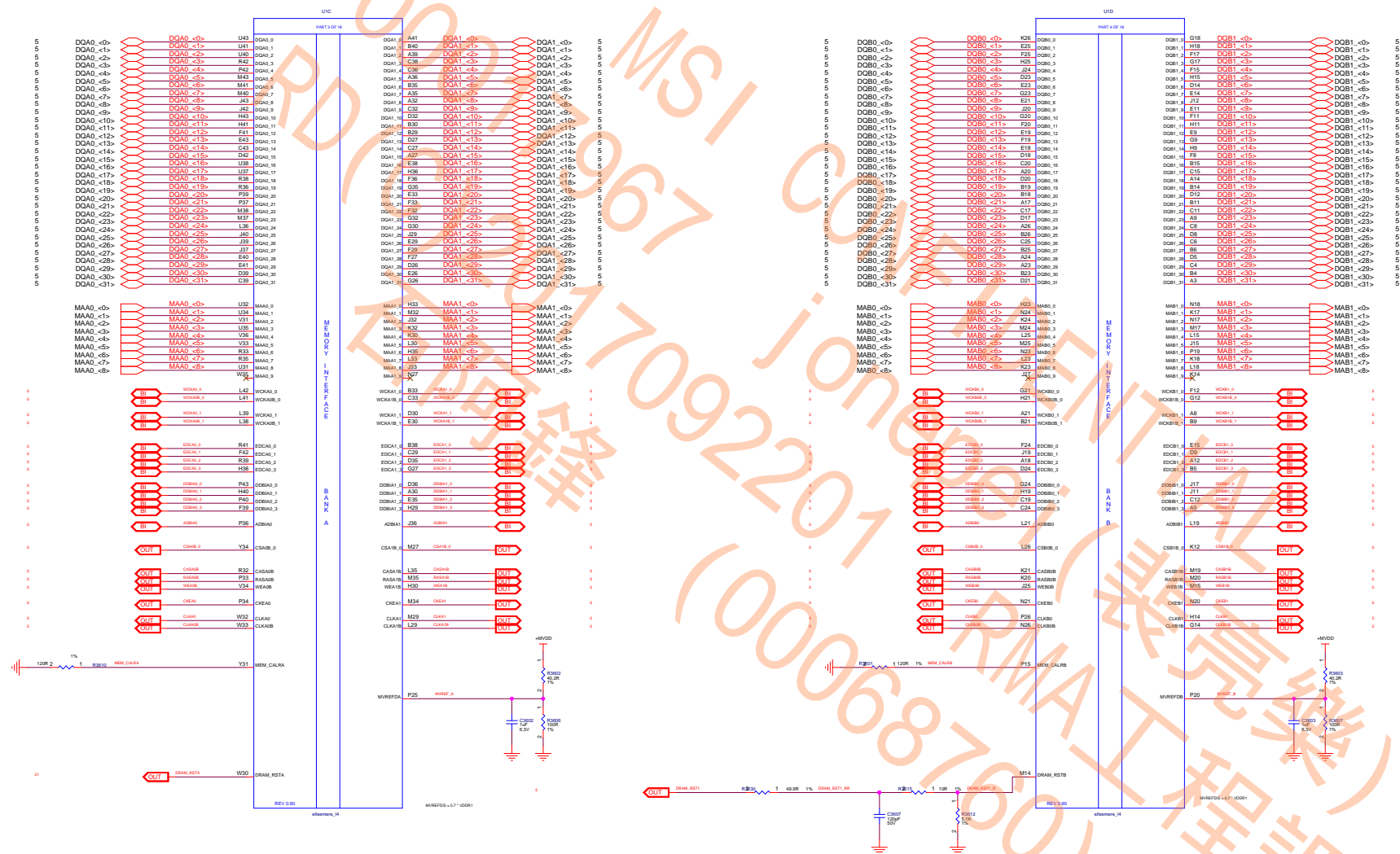
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	MS-V341		
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(2) ELLESMERE PCIE INTERFACE

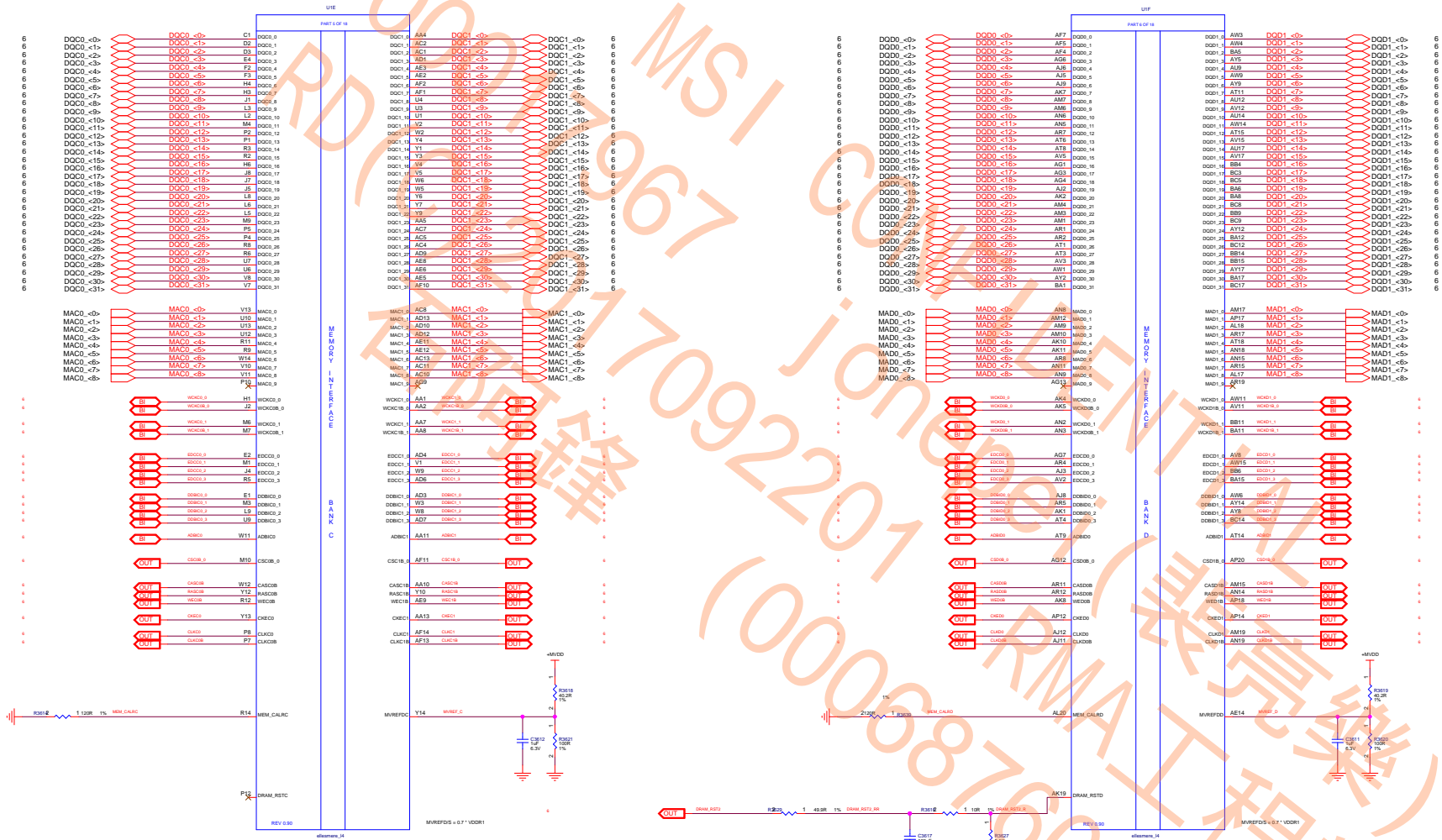


Check BOM for more detail

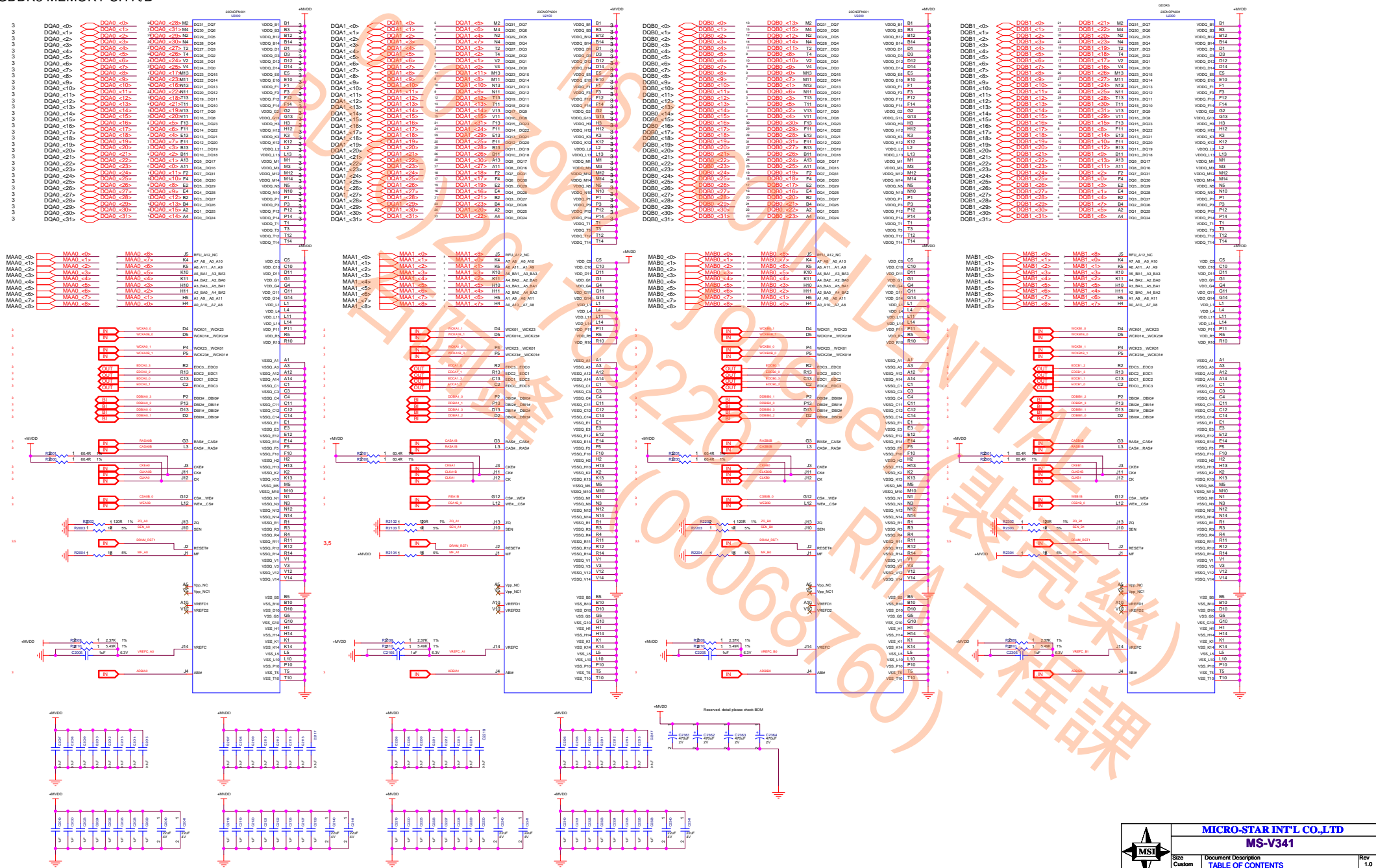
(3) ELLESMERE MEM INTERFACE CH A/B



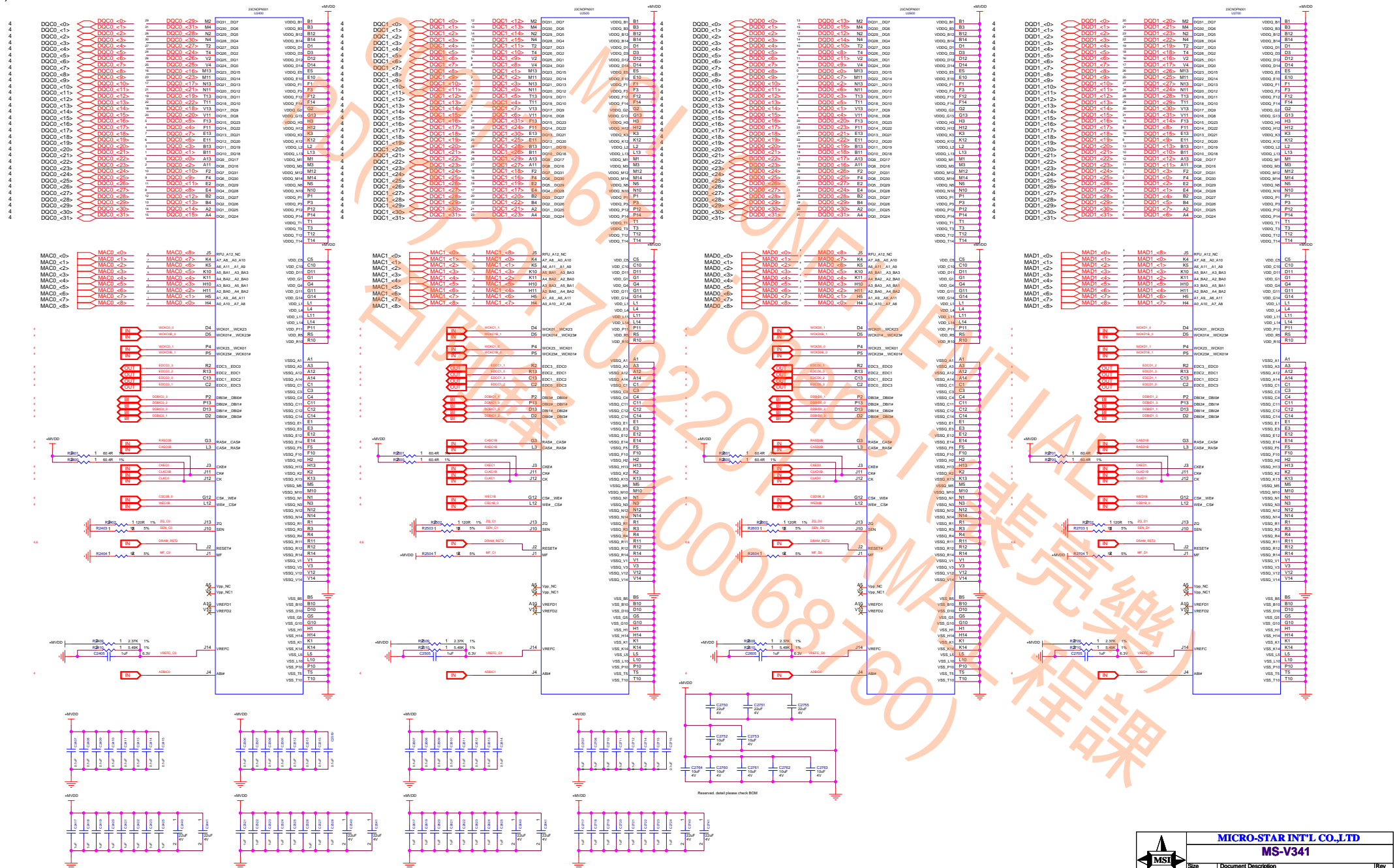
(4) ELLESMERE MEM INTERFACE CH C/D



(5) GDDR5 MEMORY CH A/B

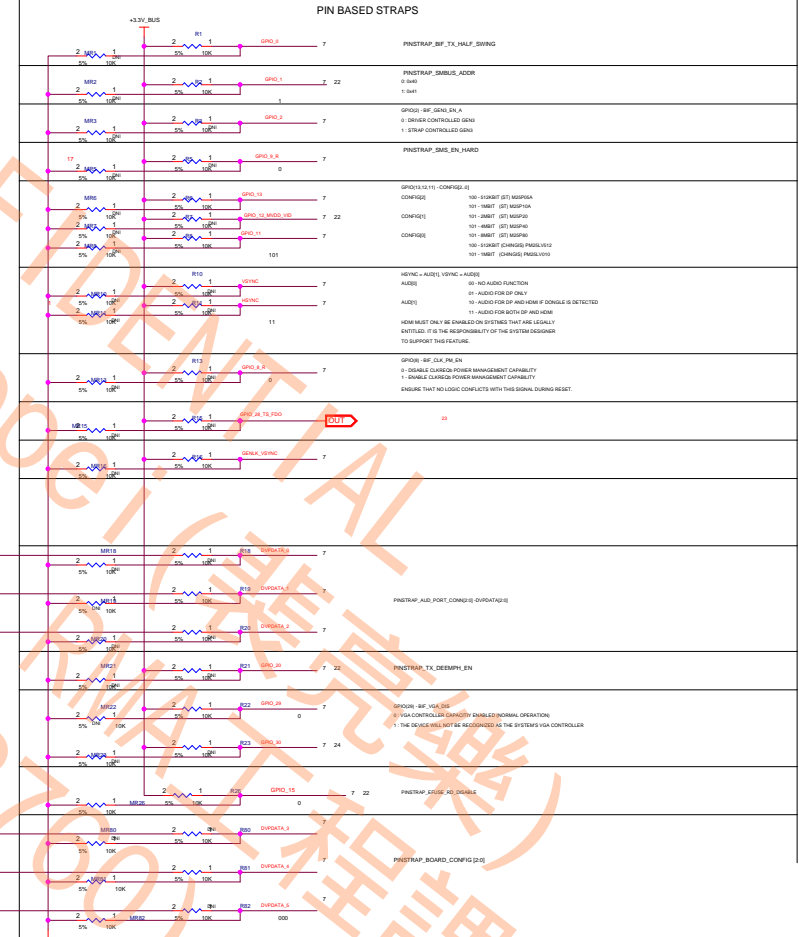
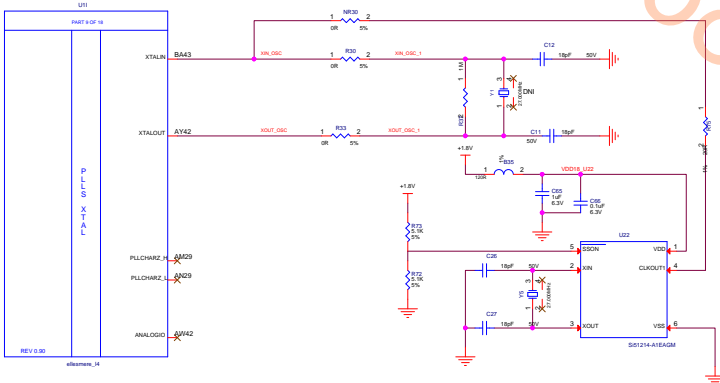
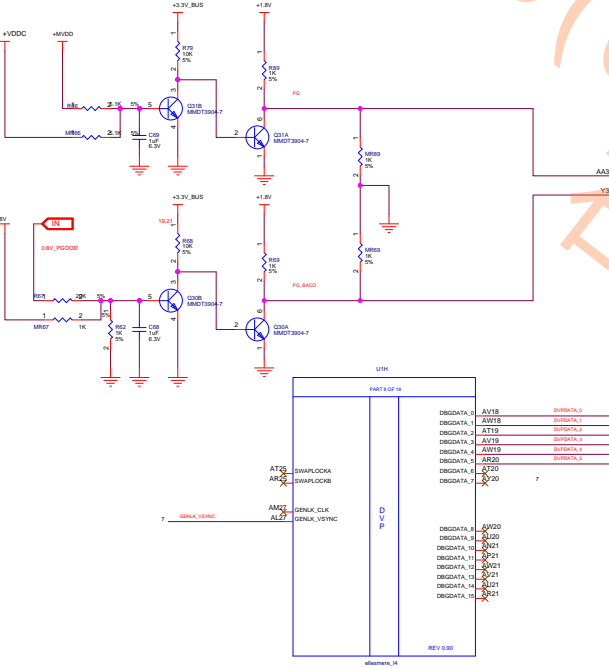


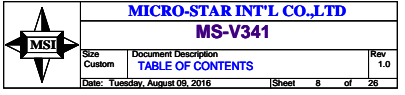
(6) GDDR5 MEMORY CH C/D



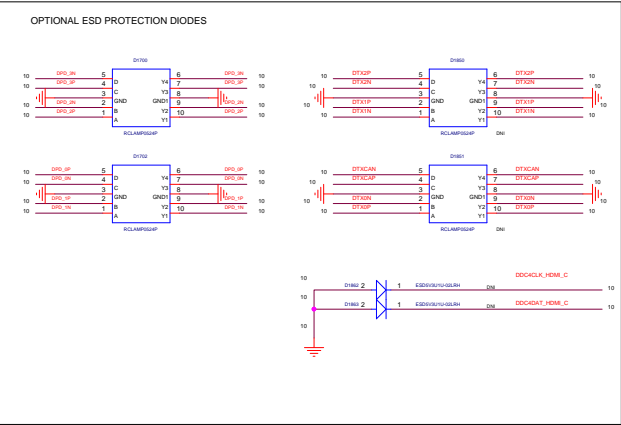
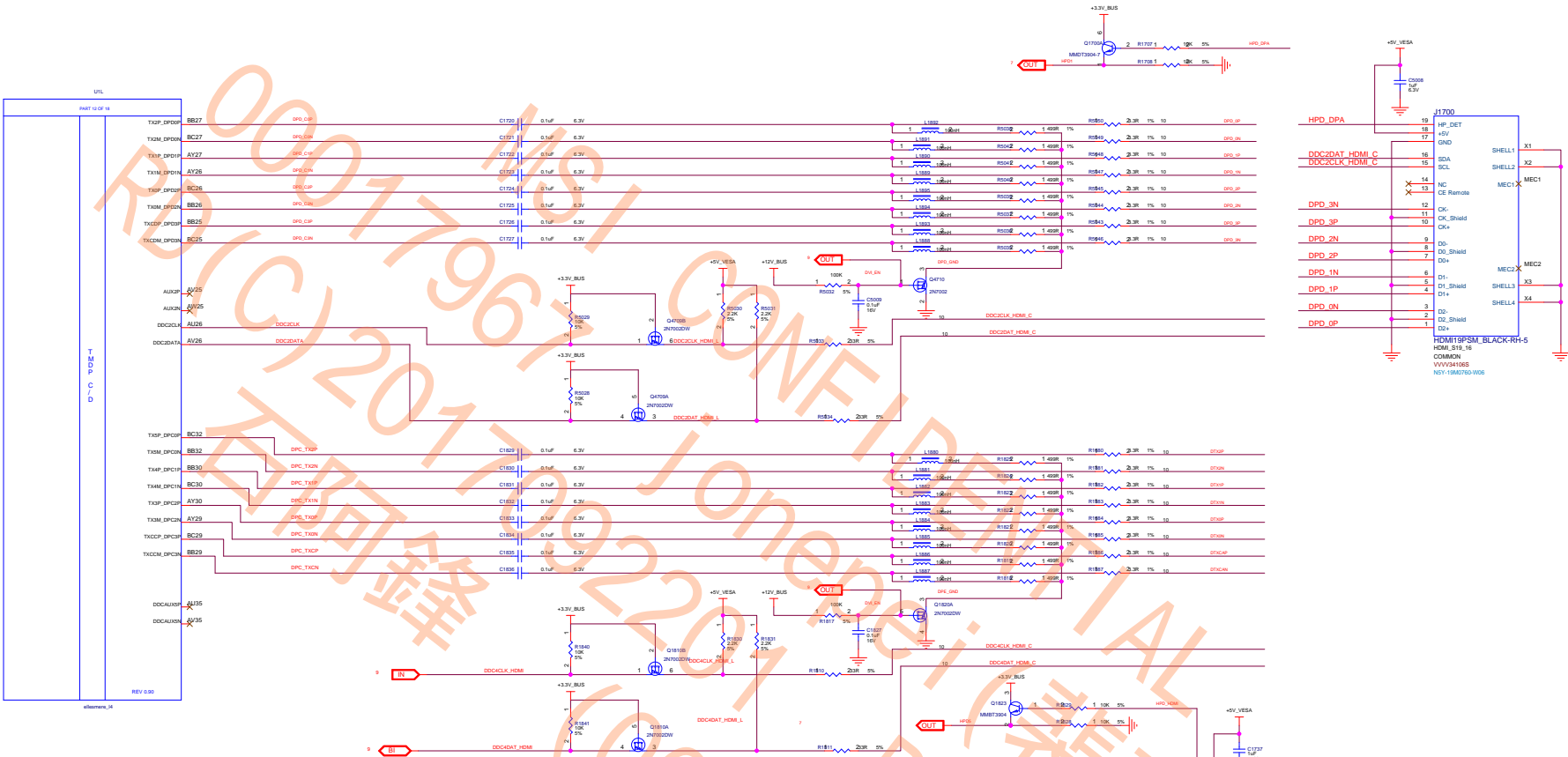
(7) ELLESMERE GPIO STRAP CF XTAL

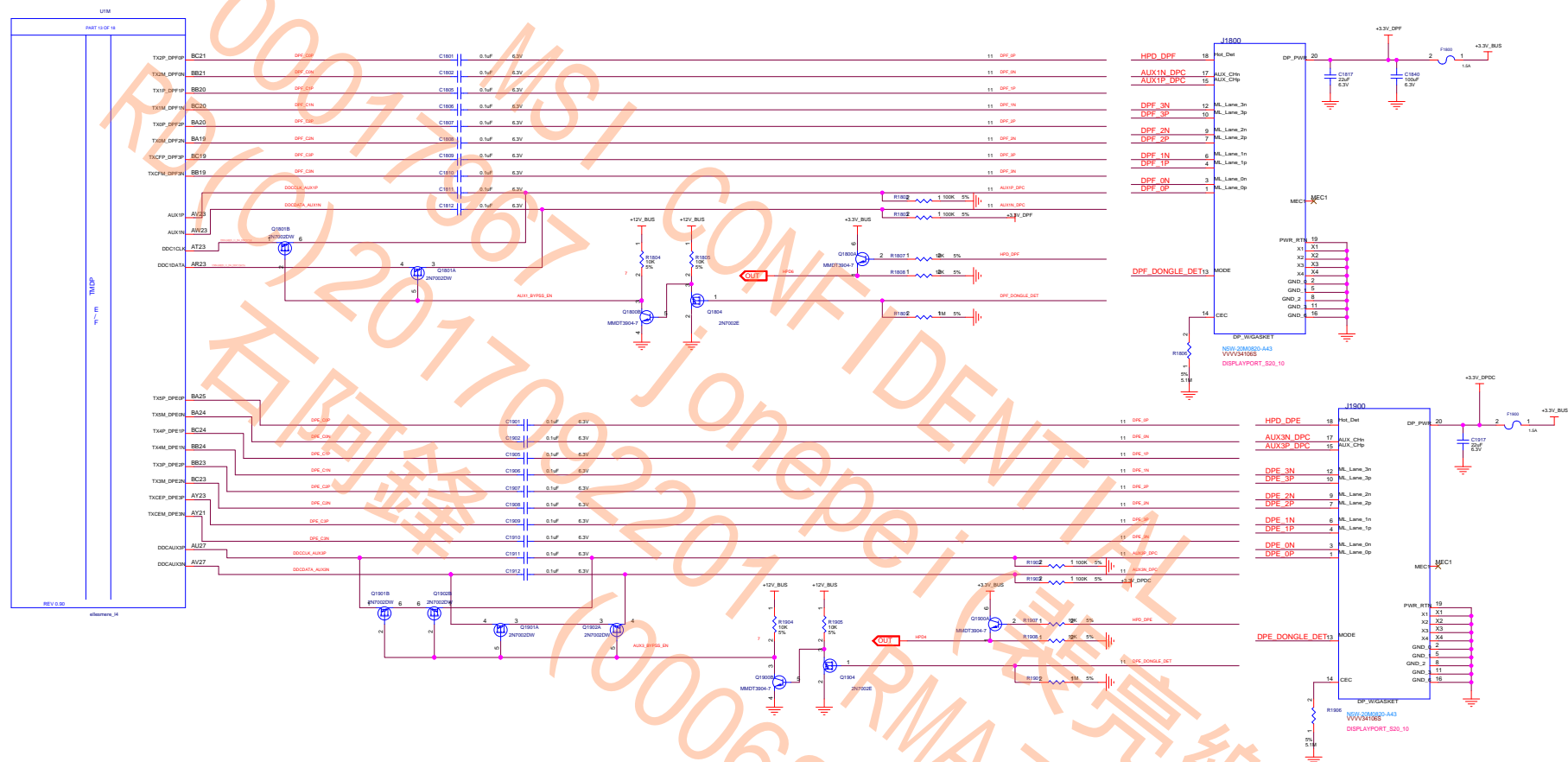
SLIC8DA BUS		
IC ADDRESS	FUNCTION	DEVICE
DDCVGA BUS		
IC ADDRESS	FUNCTION	DEVICE
0x00	EXT TEMP SENSOR	LMS8003



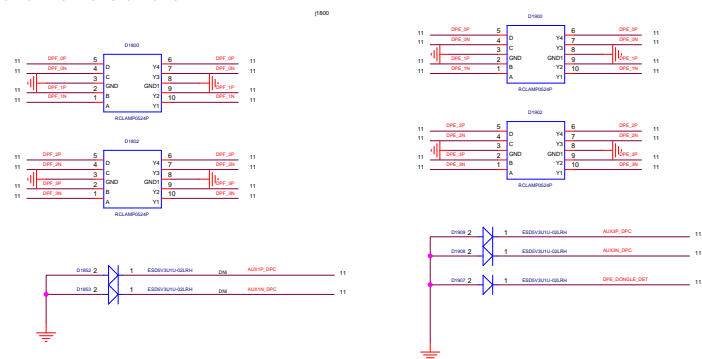


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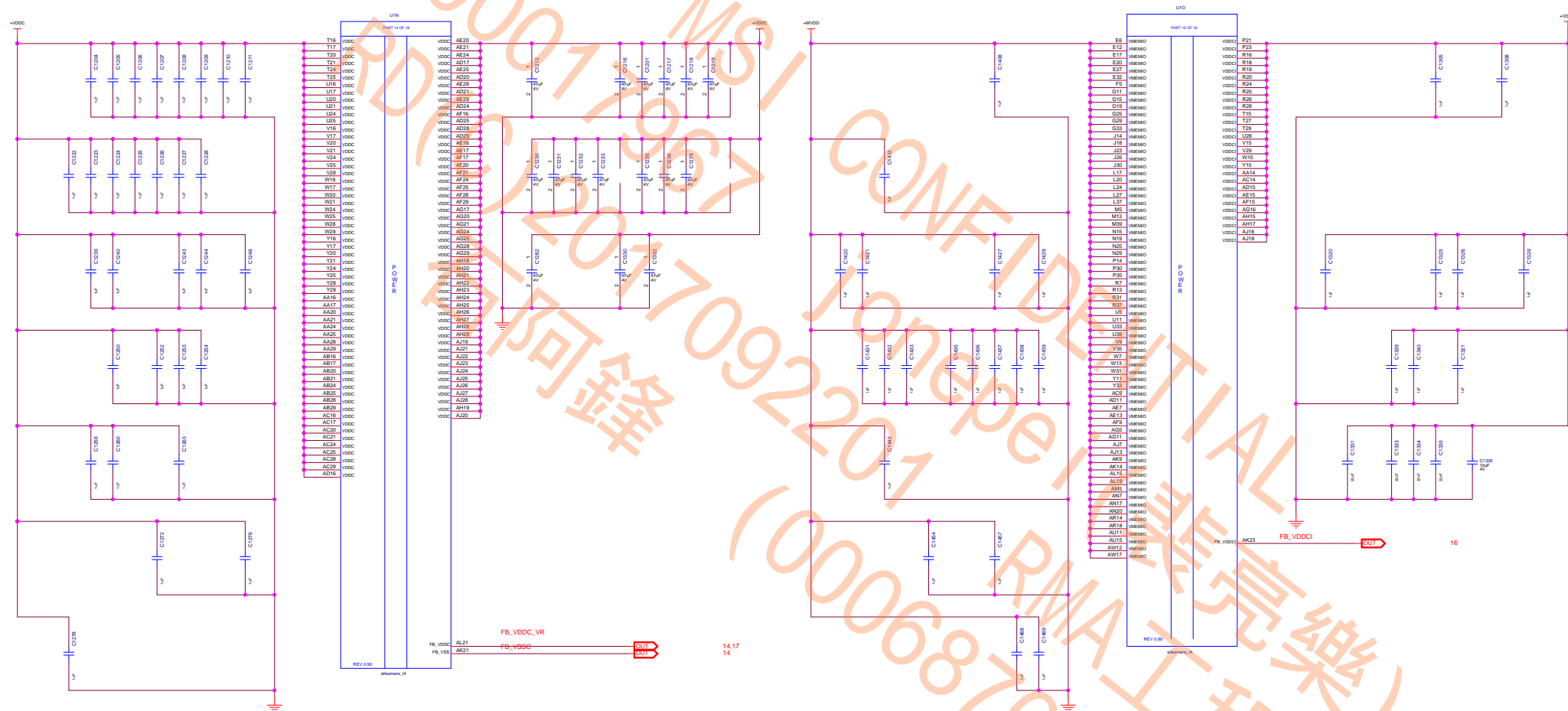


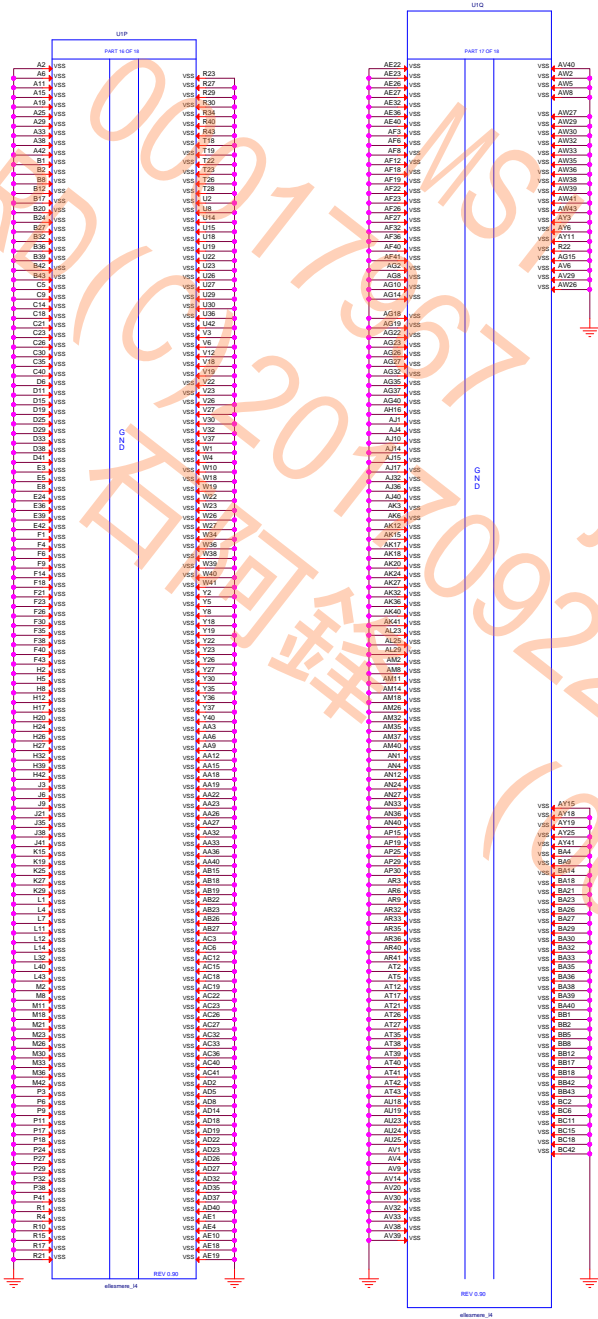


OPTIONAL ESD PROTECTION DIODES

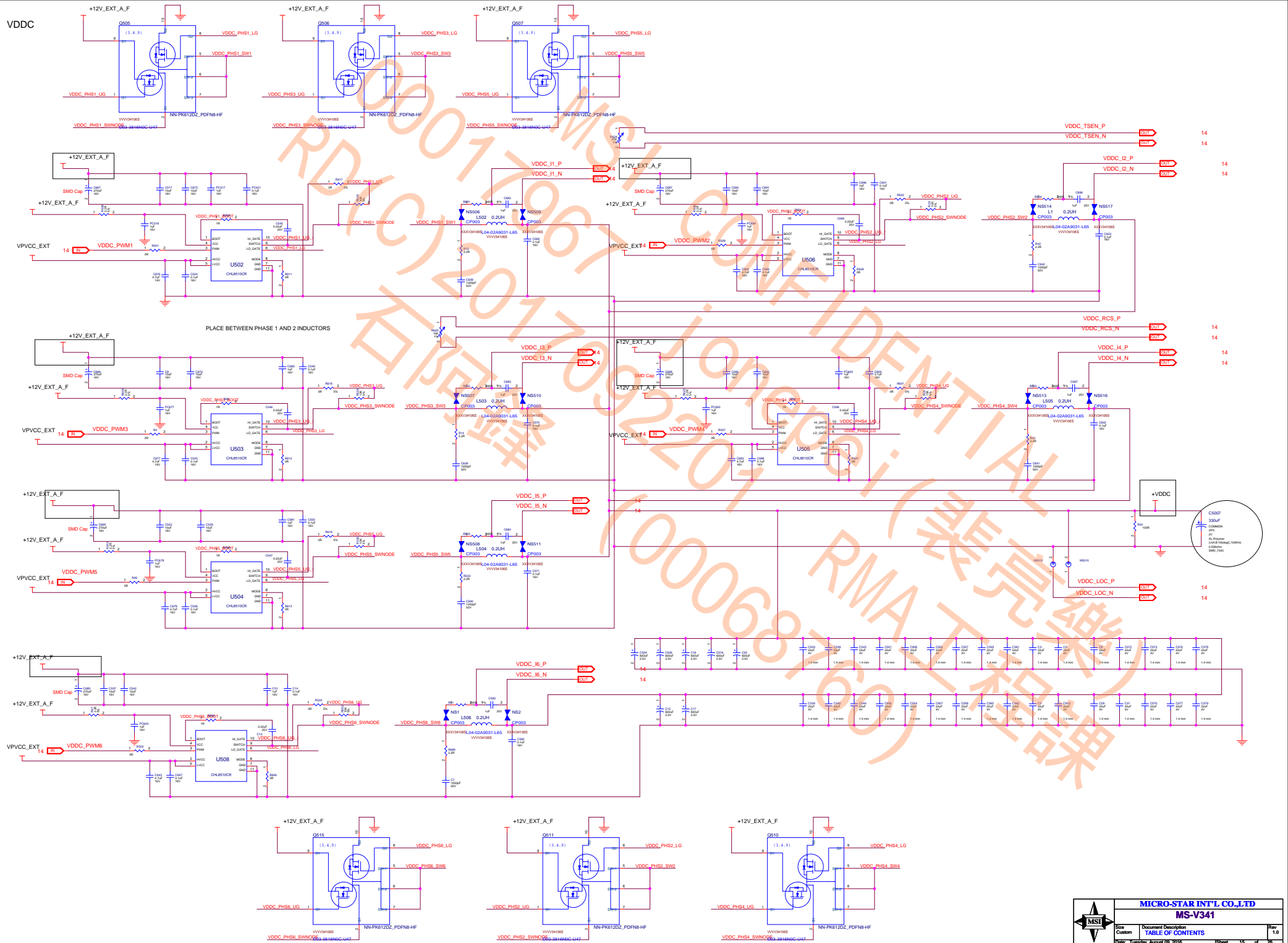


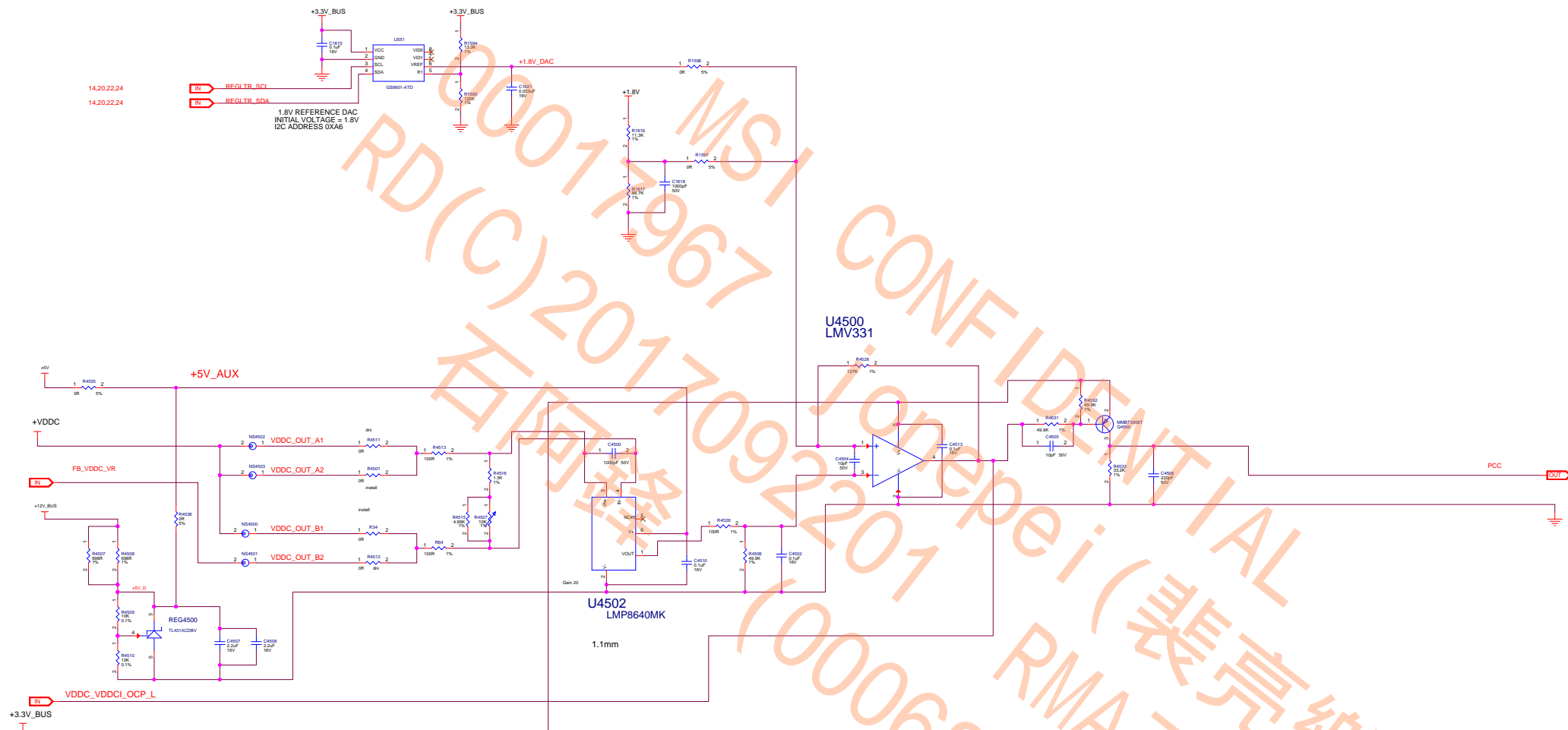
(12) ELLESMERE POWER

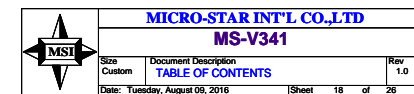




VDDC







The schematic diagram illustrates the power management IC (U900) and its connections to the PCB. Key components and connections include:

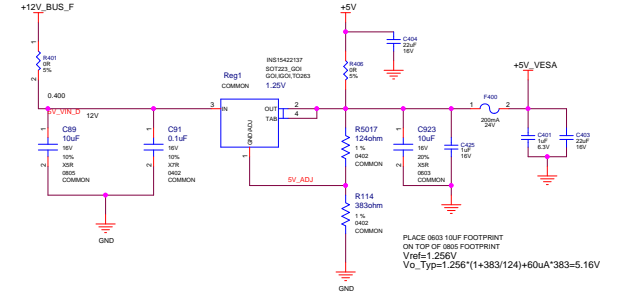
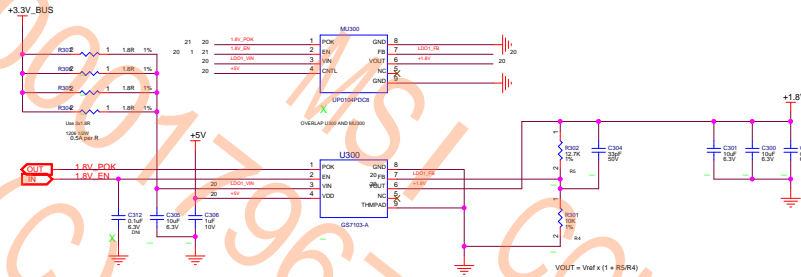
- Input/Output Pins:**
 - VIN:** Connected to the input voltage source.
 - 0.8V_EN:** Connected to the 0.8V_EN pin.
 - 0.8V_PG000:** Connected to the 0.8V_PG000 pin.
 - +0.8V:** Connected to the +0.8V pin.
 - +0.8V_REG_FB:** Connected to the +0.8V_REG_FB pin.
- Control Pins:**
 - EN:** Enable pin.
 - FB:** Feedback pin.
 - TCN:** Thermal shutdown pin.
- Internal Components:**
 - U900:** The main power management IC.
 - GS9238-AT-Q:** A temperature sensor.
 - PC9001:** A power MOSFET.
 - PC9002:** A power MOSFET.
 - PC9003:** A power MOSFET.
 - PC9004:** A power MOSFET.
 - PC9005:** A power MOSFET.
 - PC9006:** A power MOSFET.
 - PC9007:** A power MOSFET.
 - PC9008:** A power MOSFET.
 - PC9009:** A power MOSFET.
 - PC9010:** A power MOSFET.
 - PC9011:** A power MOSFET.
 - PC9012:** A power MOSFET.
 - PC9013:** A power MOSFET.
 - PC9014:** A power MOSFET.
 - PC9015:** A power MOSFET.
 - PC9016:** A power MOSFET.
 - PC9017:** A power MOSFET.
 - PC9018:** A power MOSFET.
 - PC9019:** A power MOSFET.
 - PC9020:** A power MOSFET.
 - PC9021:** A power MOSFET.
 - PC9022:** A power MOSFET.
 - PC9023:** A power MOSFET.
 - PC9024:** A power MOSFET.
 - PC9025:** A power MOSFET.
 - PC9026:** A power MOSFET.
 - PC9027:** A power MOSFET.
 - PC9028:** A power MOSFET.
 - PC9029:** A power MOSFET.
 - PC9030:** A power MOSFET.
 - PC9031:** A power MOSFET.
 - PC9032:** A power MOSFET.
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 - PC9034:** A power MOSFET.
 - PC9035:** A power MOSFET.
 - PC9036:** A power MOSFET.
 - PC9037:** A power MOSFET.
 - PC9038:** A power MOSFET.
 - PC9039:** A power MOSFET.
 - PC9040:** A power MOSFET.
 - PC9041:** A power MOSFET.
 - PC9042:** A power MOSFET.
 - PC9043:** A power MOSFET.
 - PC9044:** A power MOSFET.
 - PC9045:** A power MOSFET.
 - PC9046:** A power MOSFET.
 - PC9047:** A power MOSFET.
 - PC9048:** A power MOSFET.
 - PC9049:** A power MOSFET.
 - PC9050:** A power MOSFET.
 - PC9051:** A power MOSFET.
 - PC9052:** A power MOSFET.
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 - PC9076:** A power MOSFET.
 - PC9077:** A power MOSFET.
 - PC9078:** A power MOSFET.
 - PC9079:** A power MOSFET.
 - PC9080:** A power MOSFET.
 - PC9081:** A power MOSFET.
 - PC9082:** A power MOSFET.
 - PC9083:** A power MOSFET.
 - PC9084:** A power MOSFET.
 - PC9085:** A power MOSFET.
 - PC9086:** A power MOSFET.
 - PC9087:** A power MOSFET.
 - PC9088:** A power MOSFET.
 - PC9089:** A power MOSFET.
 - PC9090:** A power MOSFET.
 - PC9091:** A power MOSFET.
 - PC9092:** A power MOSFET.
 - PC9093:** A power MOSFET.
 - PC9094:** A power MOSFET.
 - PC9095:** A power MOSFET.
 - PC9096:** A power MOSFET.
 - PC9097:** A power MOSFET.
 - PC9098:** A power MOSFET.
 - PC9099:** A power MOSFET.
 - PC9100:** A power MOSFET.



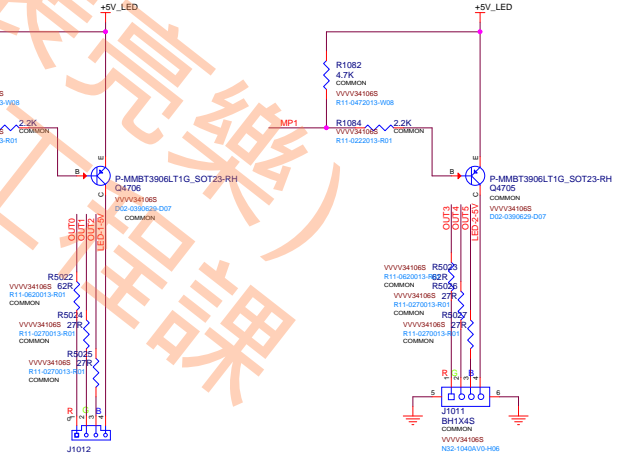
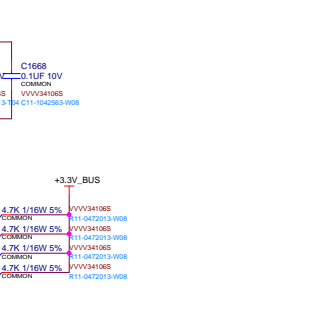
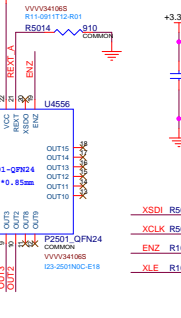
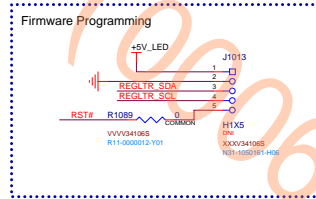
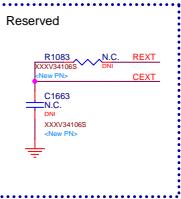
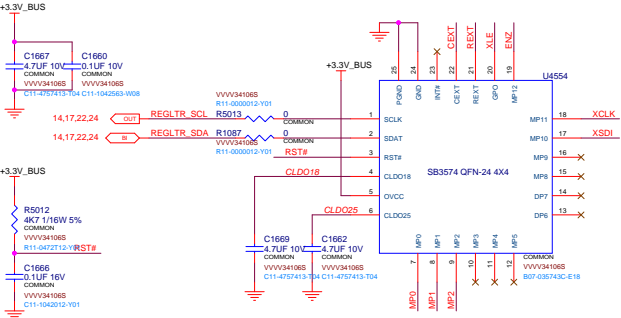
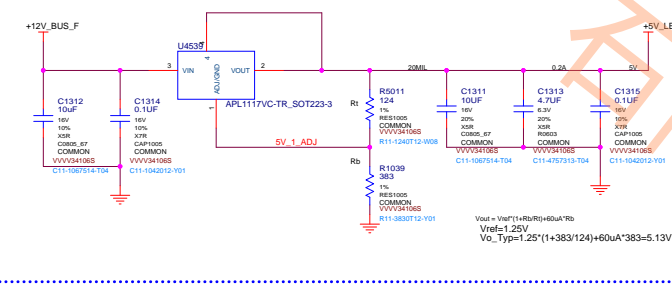
(18) SMALL RAIL REGULATORS , LED_CONTROLLER_ENE3574

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

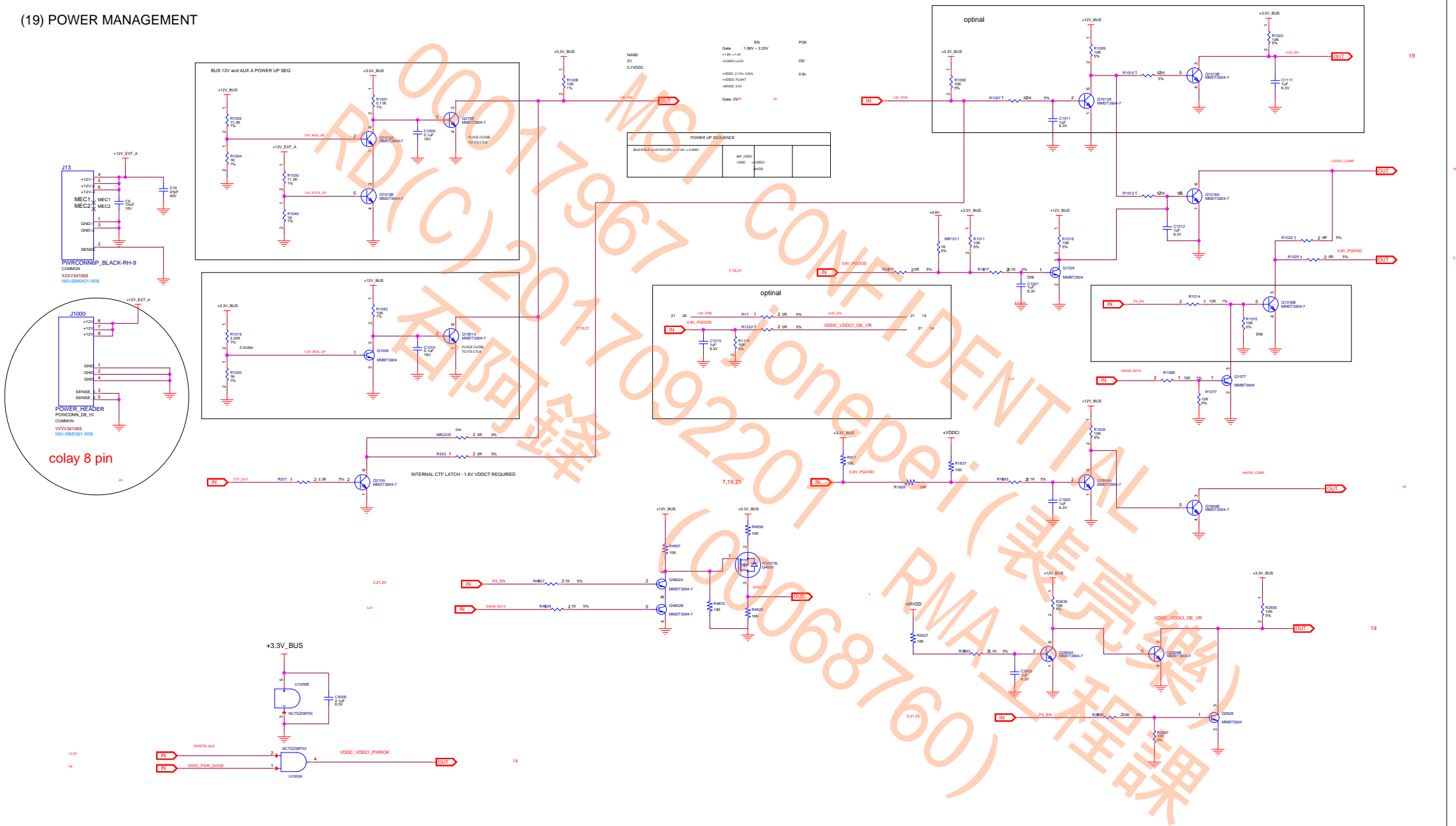


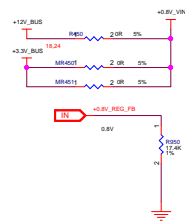
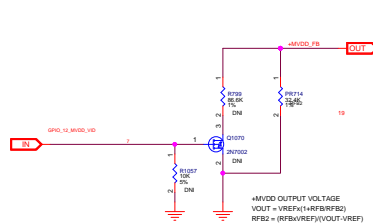
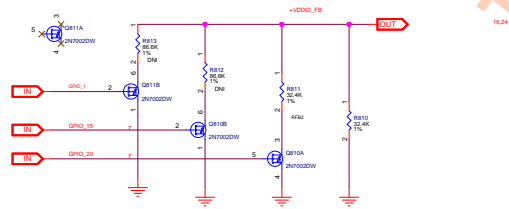
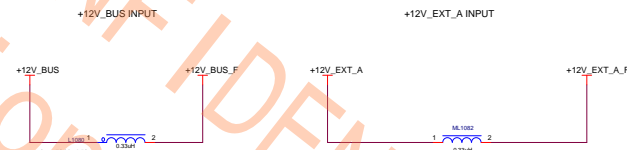
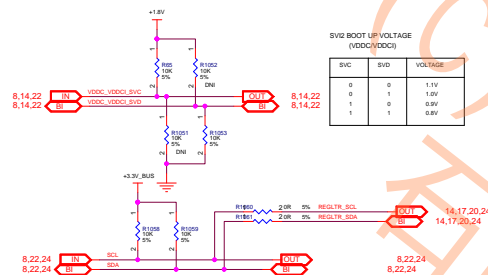
Regulators for +5V_LED

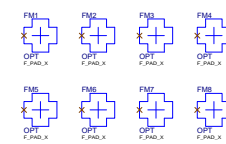
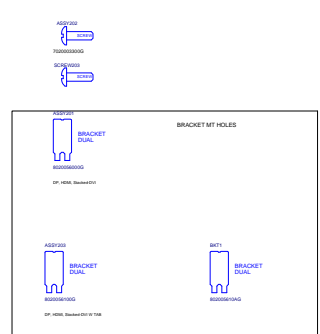
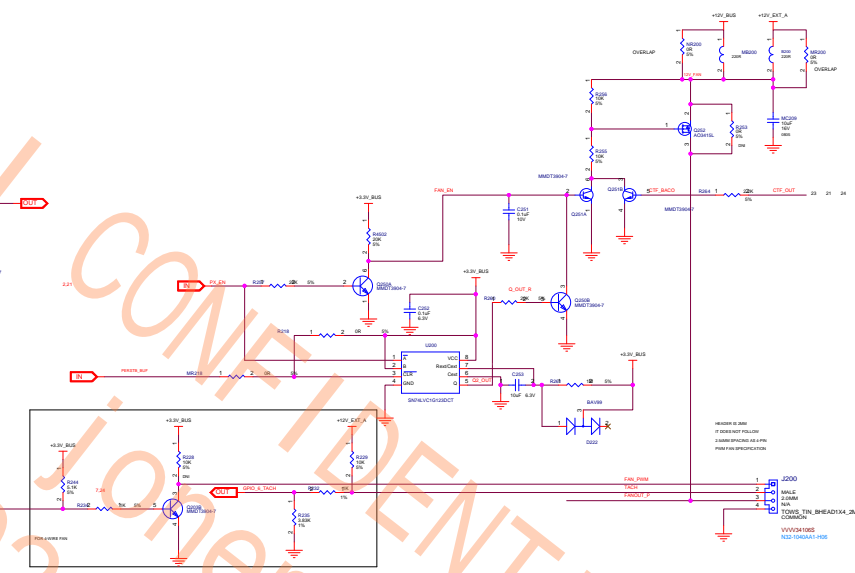


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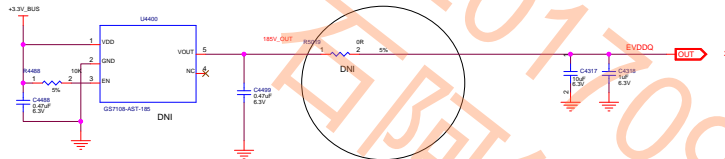
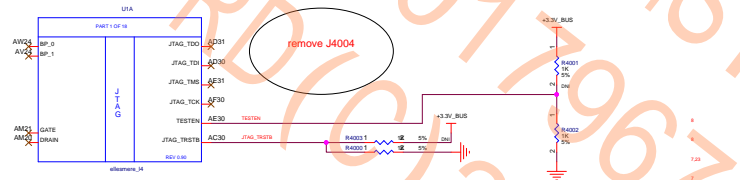
(19) POWER MANAGEMENT



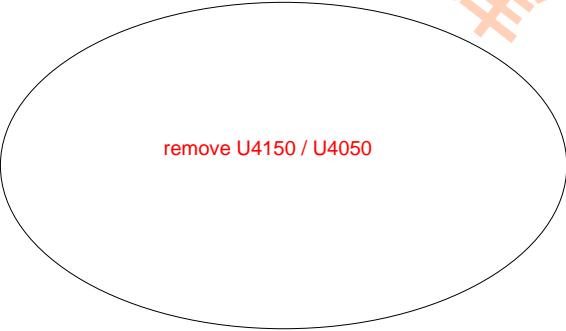




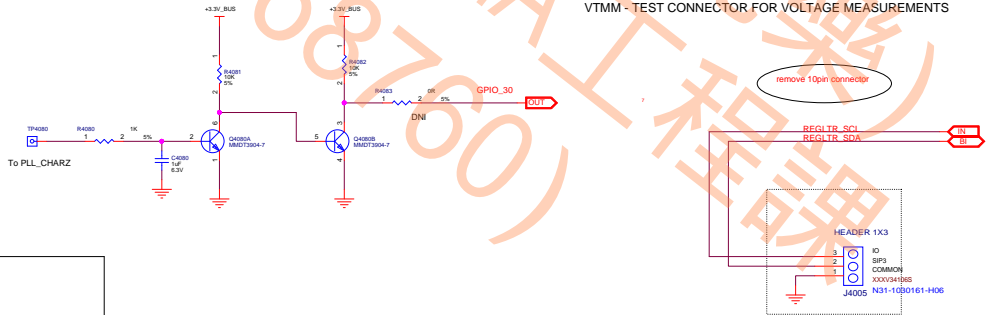
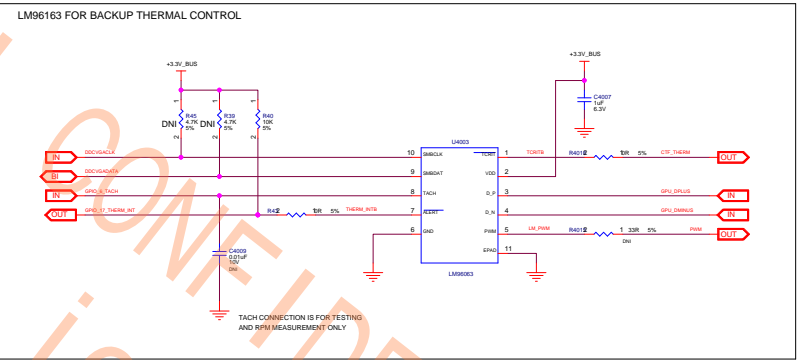
JTAG



DIGITAL POTS



DIGITAL POTS



0	00A	00000000	
1	00B	00000000	1. Add EPD01 for display, OSD01 2. Update OSD01 driver signature
2	00C	00000000	HC00: - add series resistor R11880 ~R11887 - add pull-down inductor L11880 ~L11887 Remove C402, C403, VR402, C412, 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 connector
- Page24: remove debug circuit