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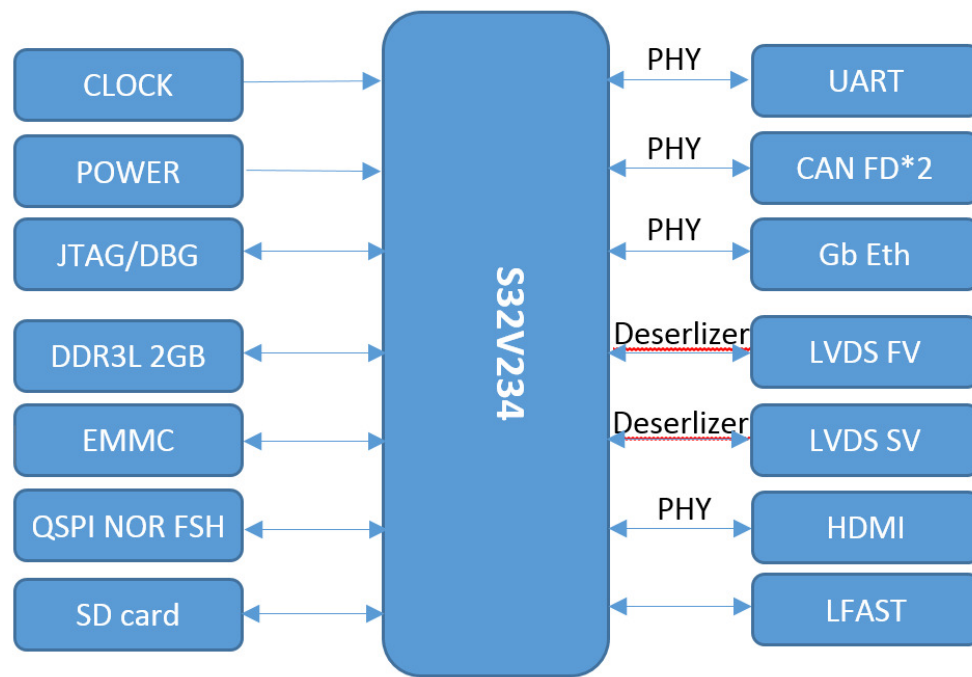
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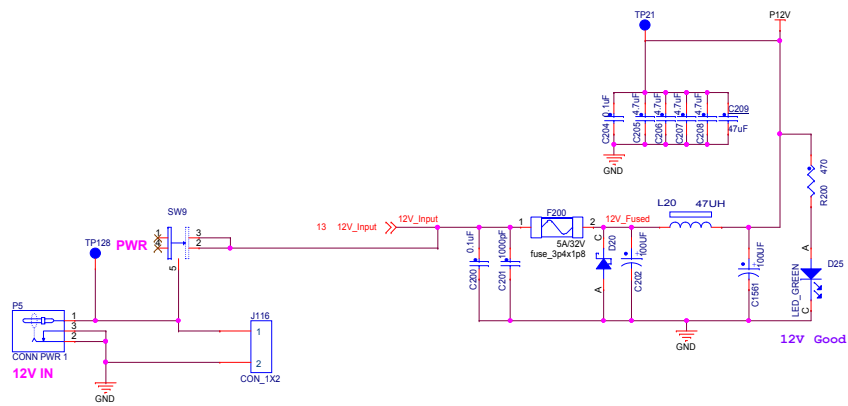
**Revision History**

Rev. Code	Date	Description
X1	29/11/2017	Draft

# Eagle Eye\_V1.0 ( S32V-ADAS-EVM)

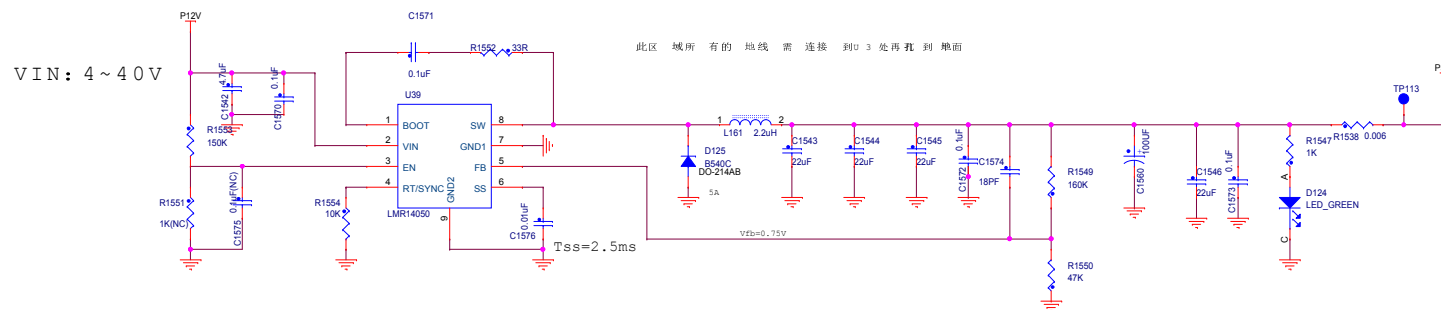
## SYSTEM BLOCKS



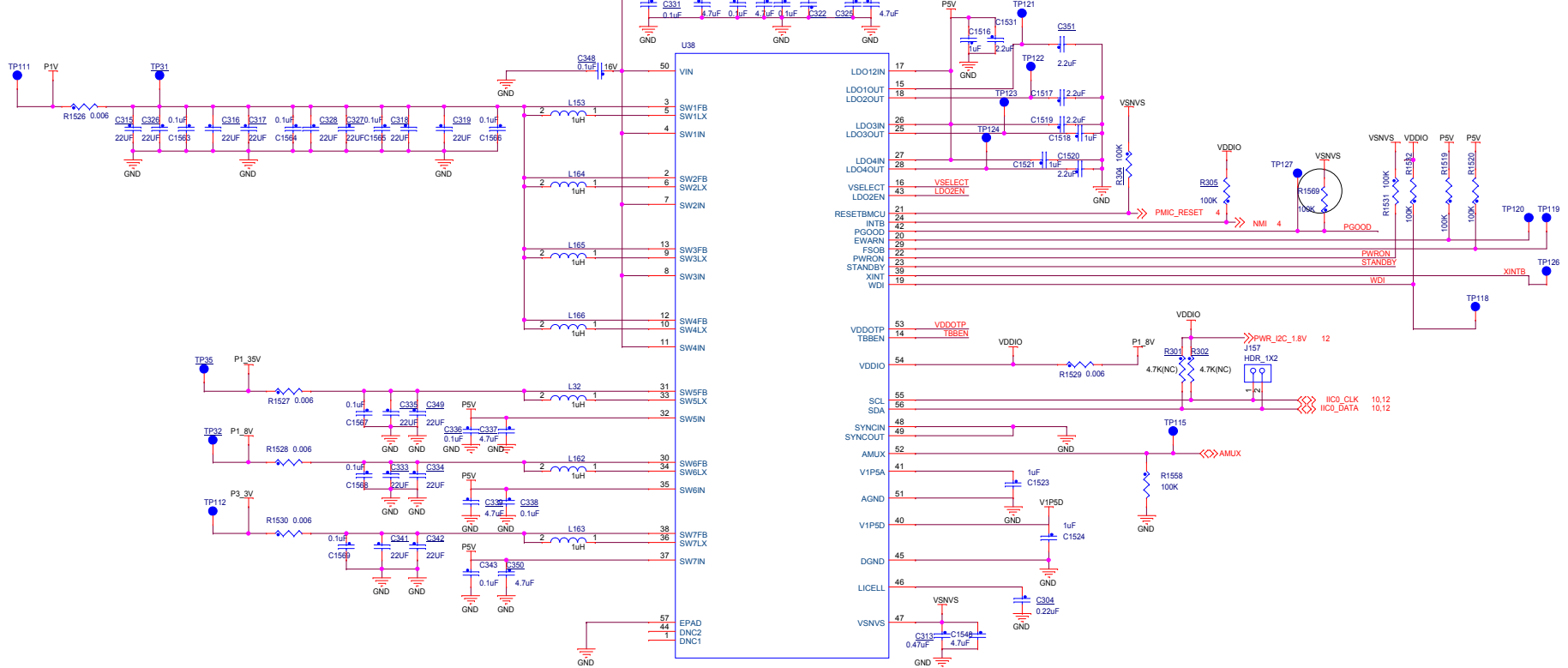


## MAIN POWER 12V- 5V

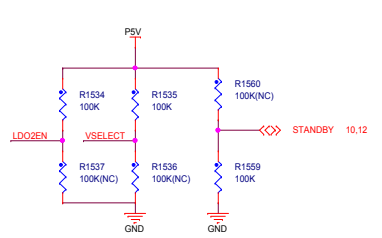
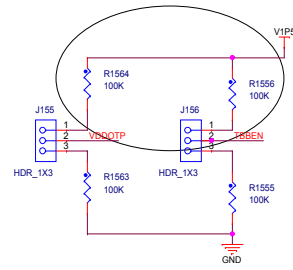
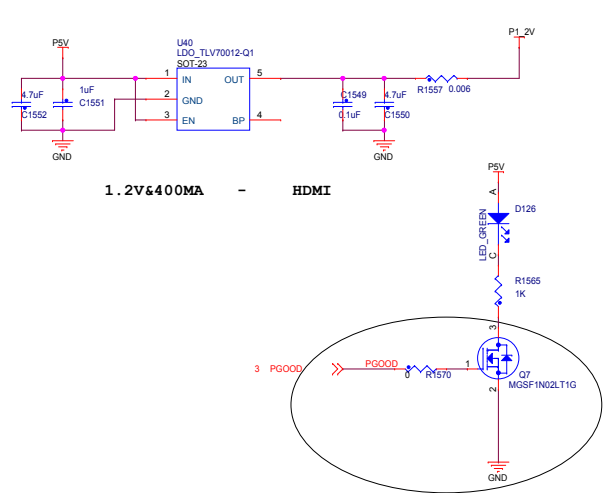
Main POWER



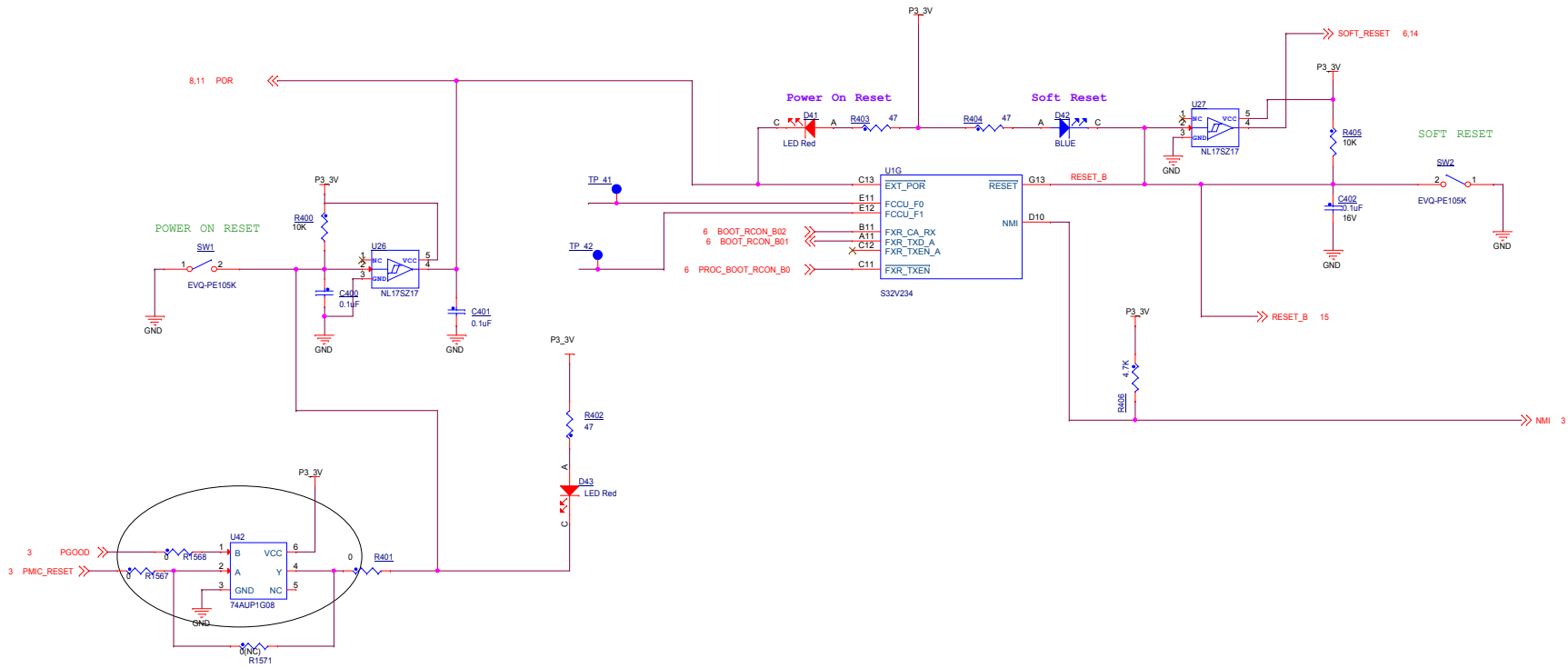
ICAP Classification: CP: I/O: X P/BI: X	
Drawing Title: <b>S32V234-ADAS-ECU</b>	
Page Title: <b>MAIN POWER</b>	
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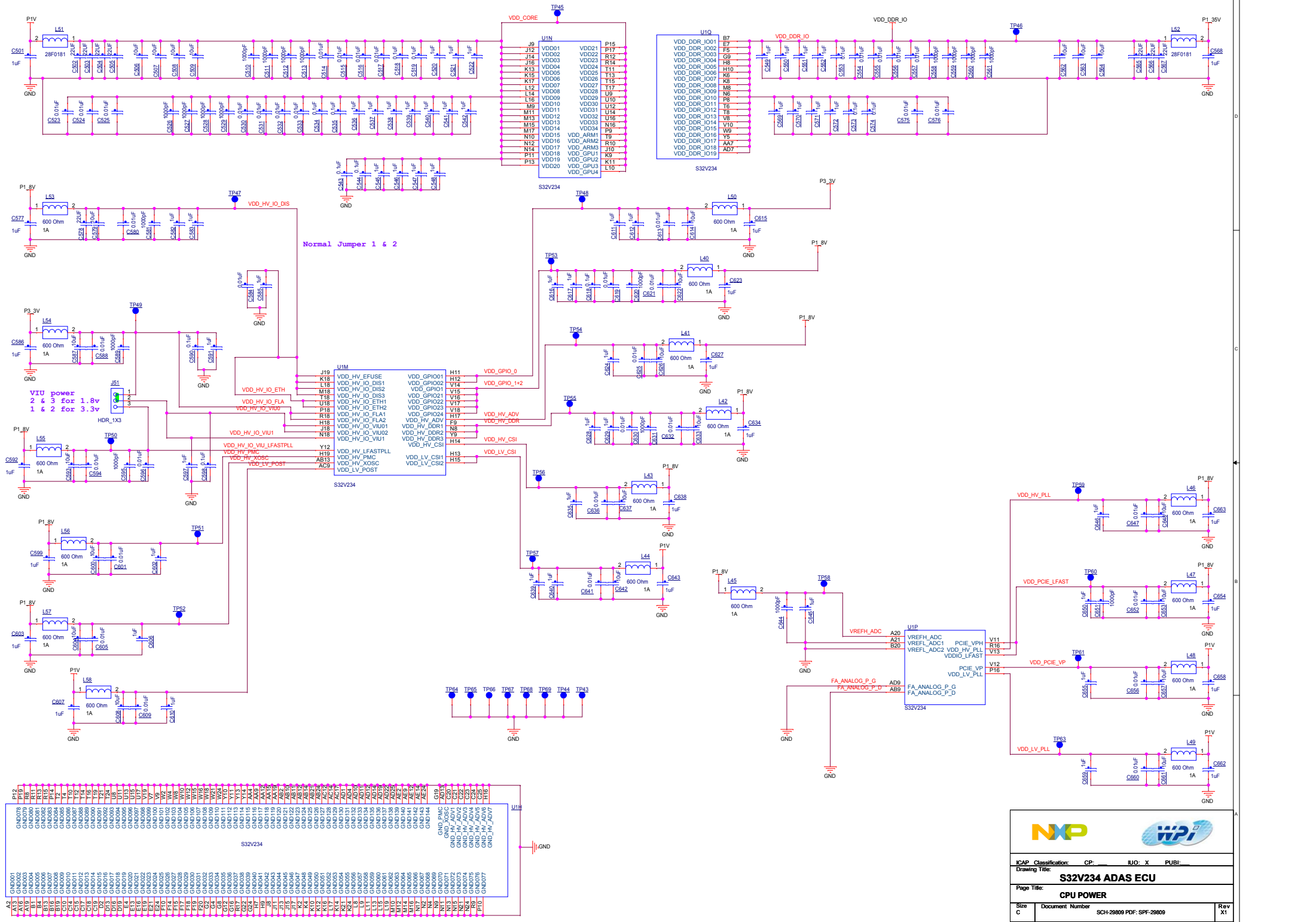


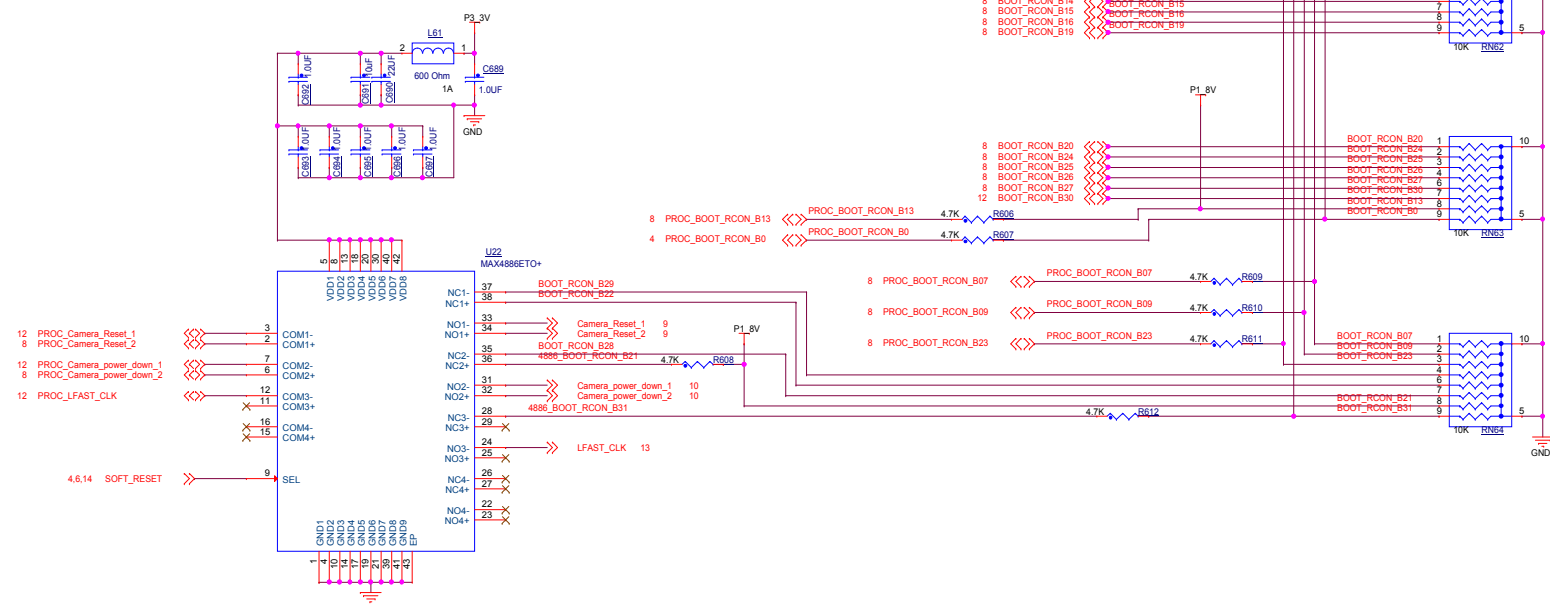
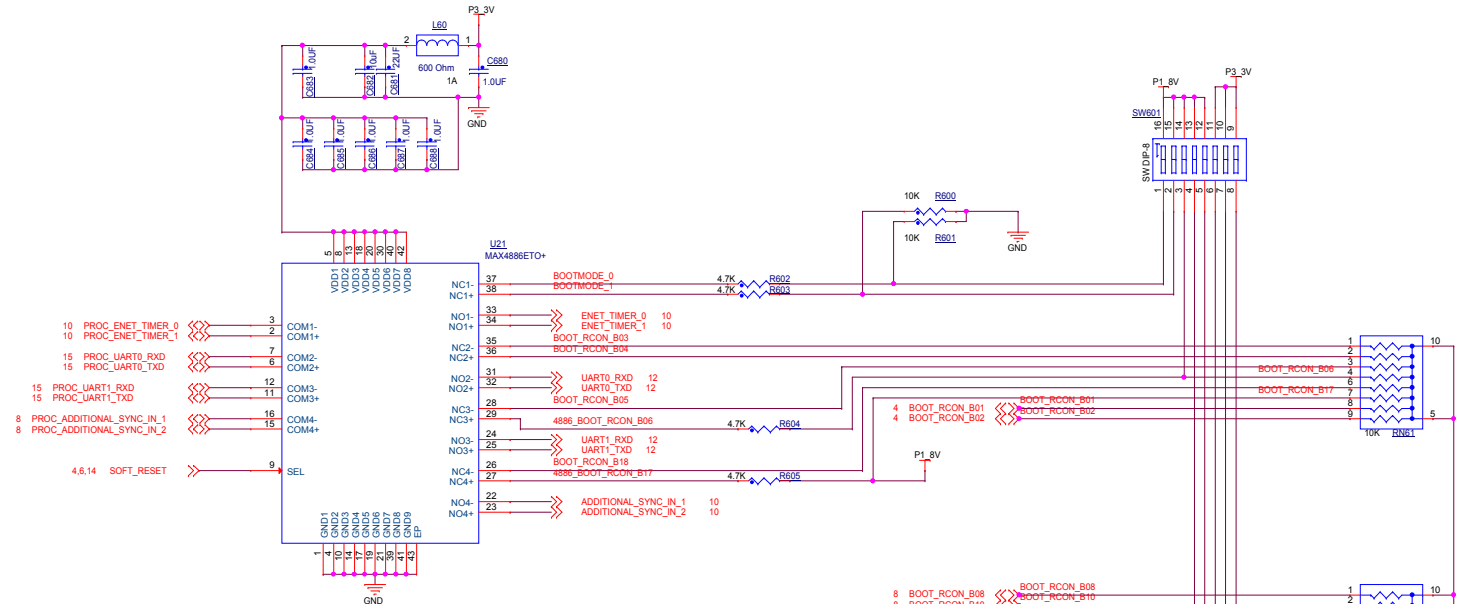
SW1+SW2+SW3+SW4	1V@10A	-	CORE
SW5	1.35V&2.5A	-	SYSTEM
SW6	1.8V&2.5A	-	DDR
SW7	3.3V&2.5A	-	DDR
LDO1			
LDO2			
LDO3			
LDO4			




# RESET

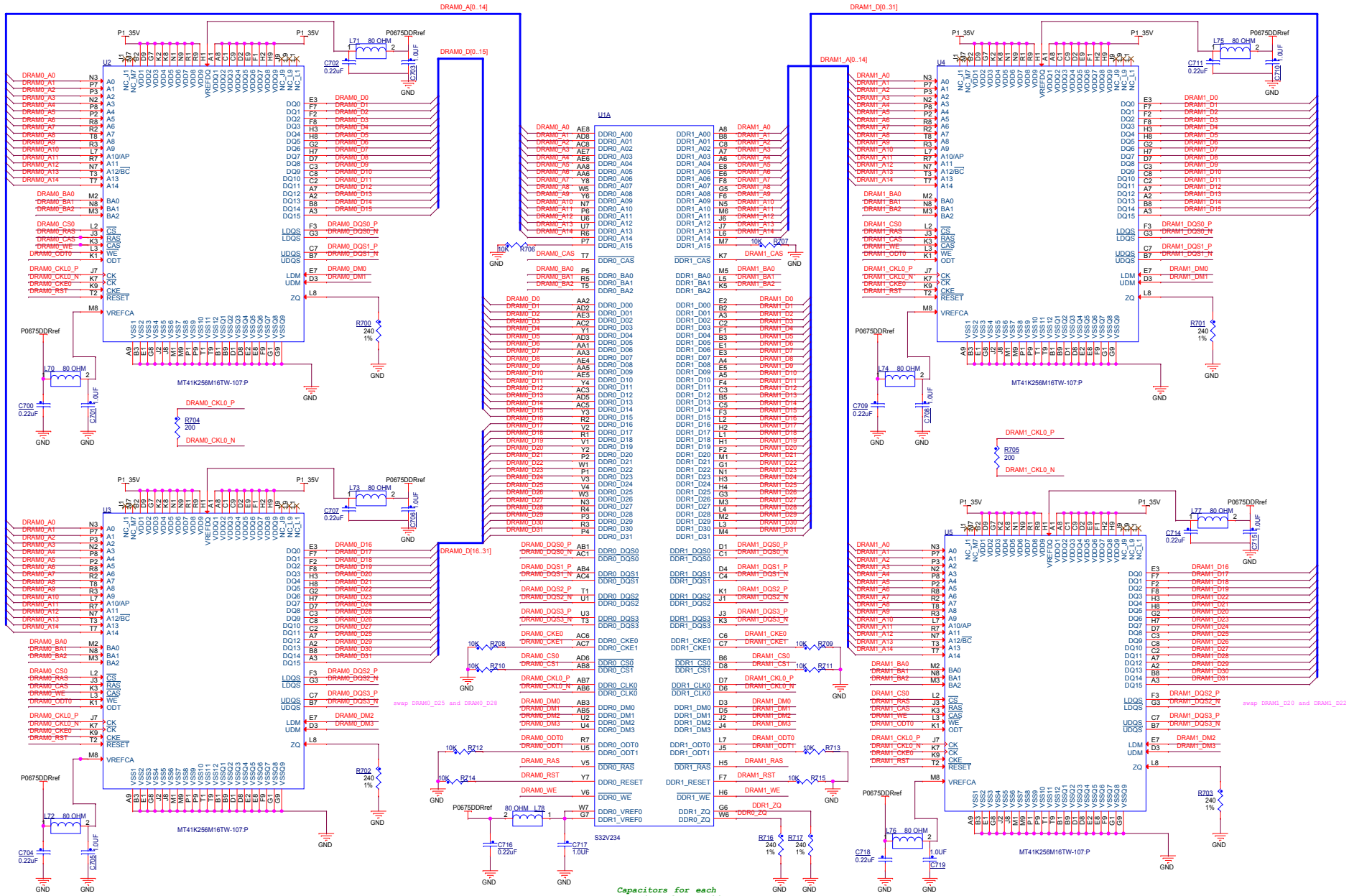






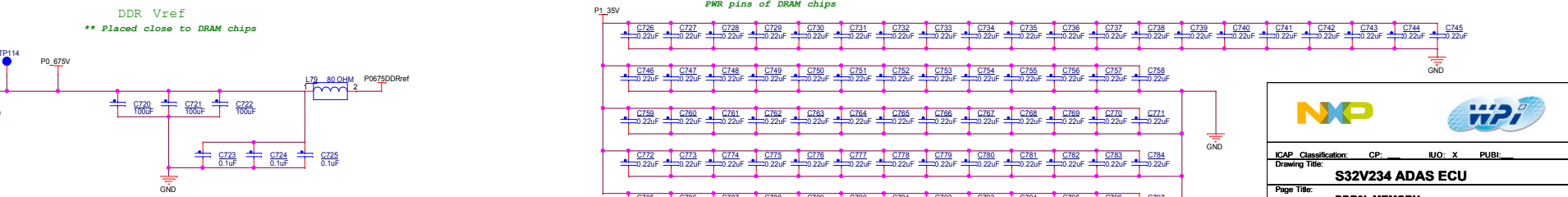


ICAP Classification: CP: _____ I/O: X P/JBI: _____	
Drawing Title: <b>S32V234 ADAS ECU</b>	
Page Title: <b>BOOT SELECT</b>	
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Capacitors for each PWR pins of DRAM chips

DDR Vref  
 \*\* Placed close to DRAM chips



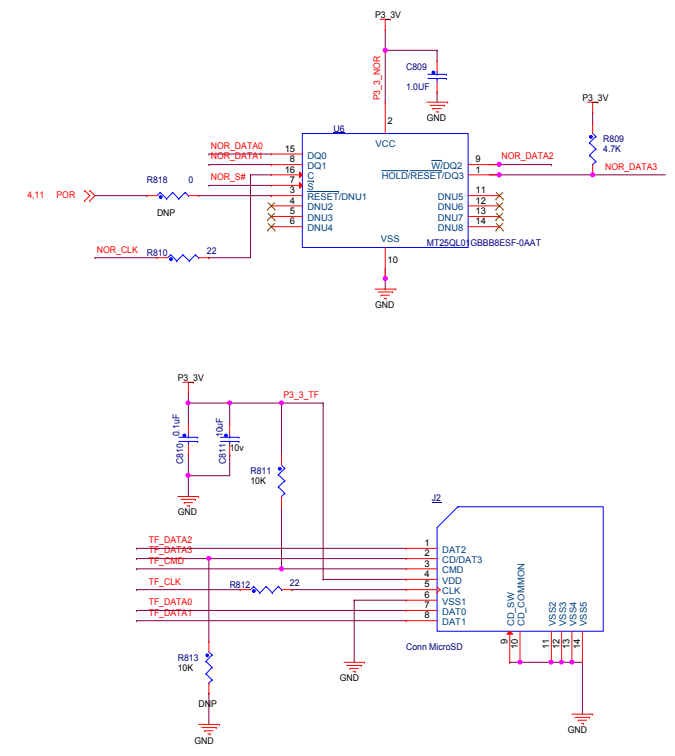
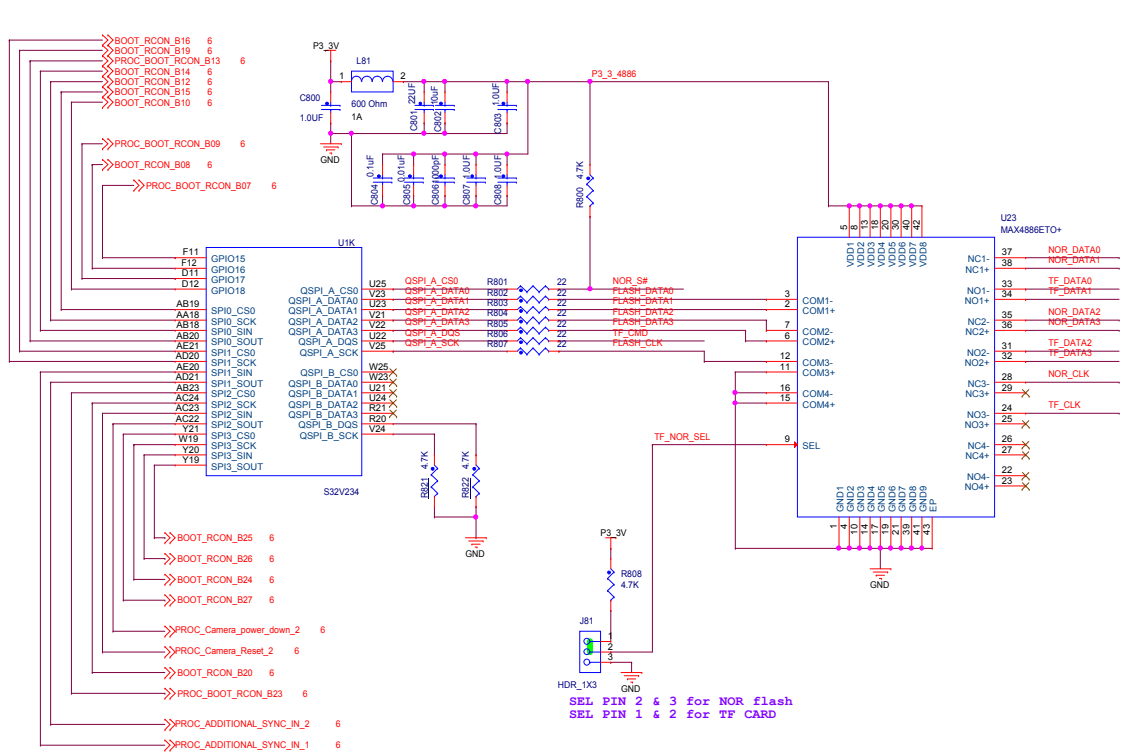
**NXP** **WPI**

ICAP Classification: CP- ILO: X PUBI:

Drawing Title: **S32V234 ADAS ECU**

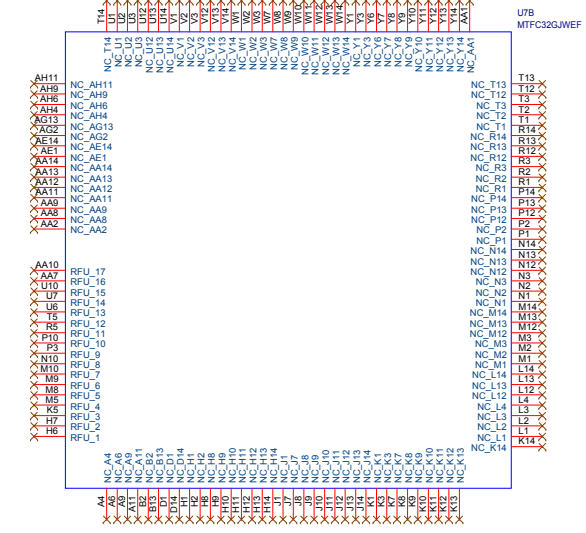
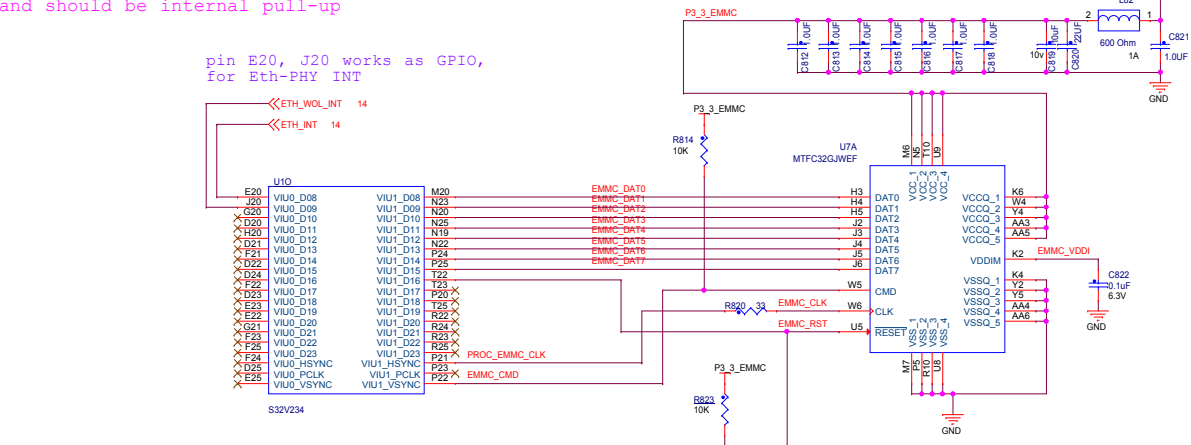
Page Title: **DDR3L MEMORY**

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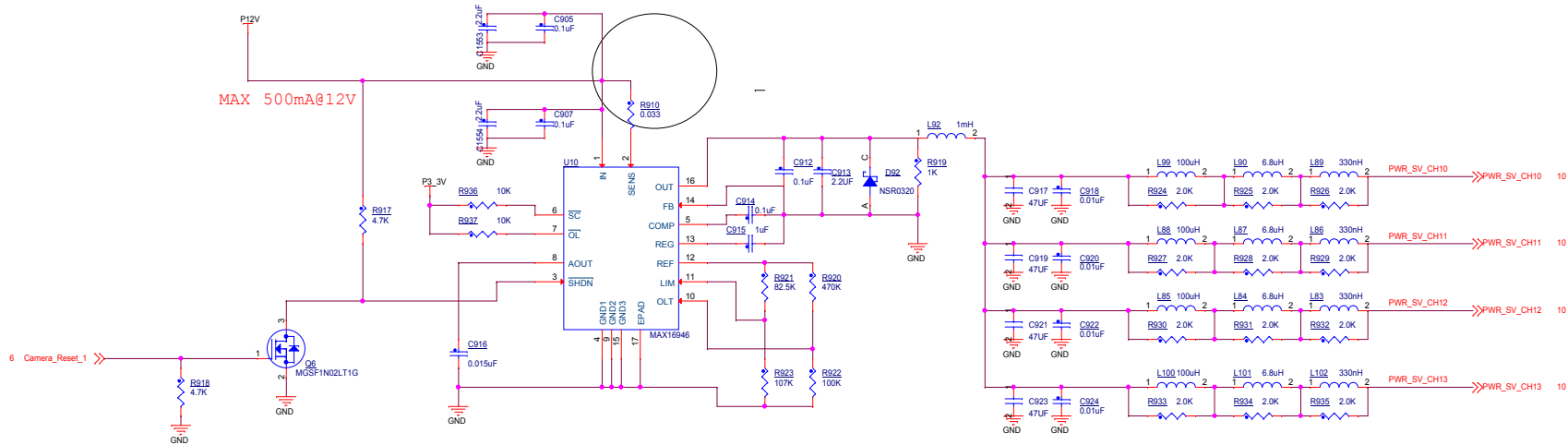
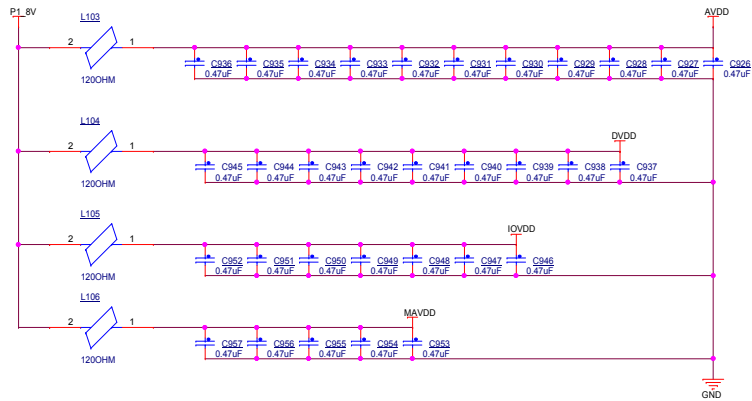


SPI pins should be configured to GPIO pins after boot and should be internal pull-up

### 32GB eMMC MEMORY



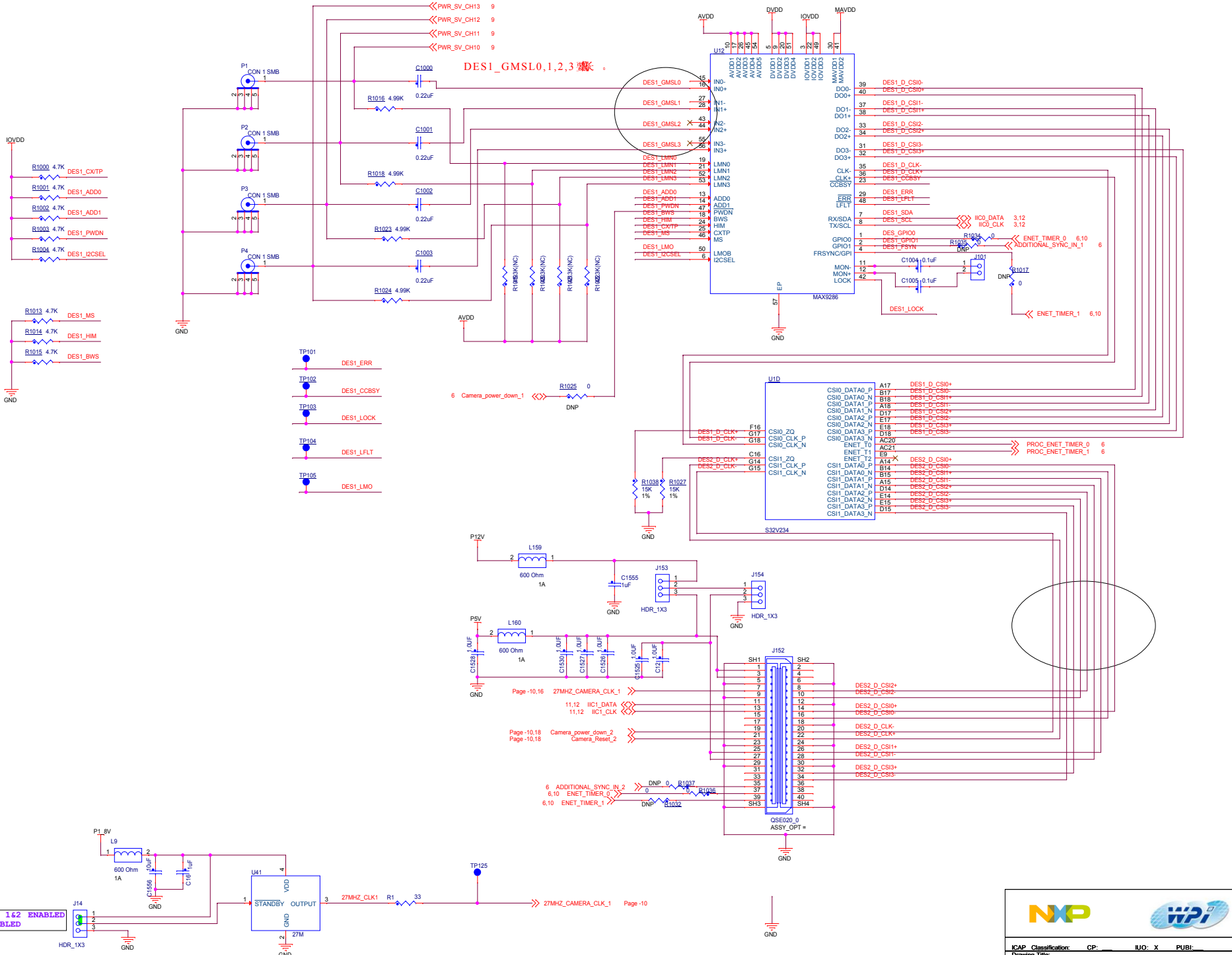




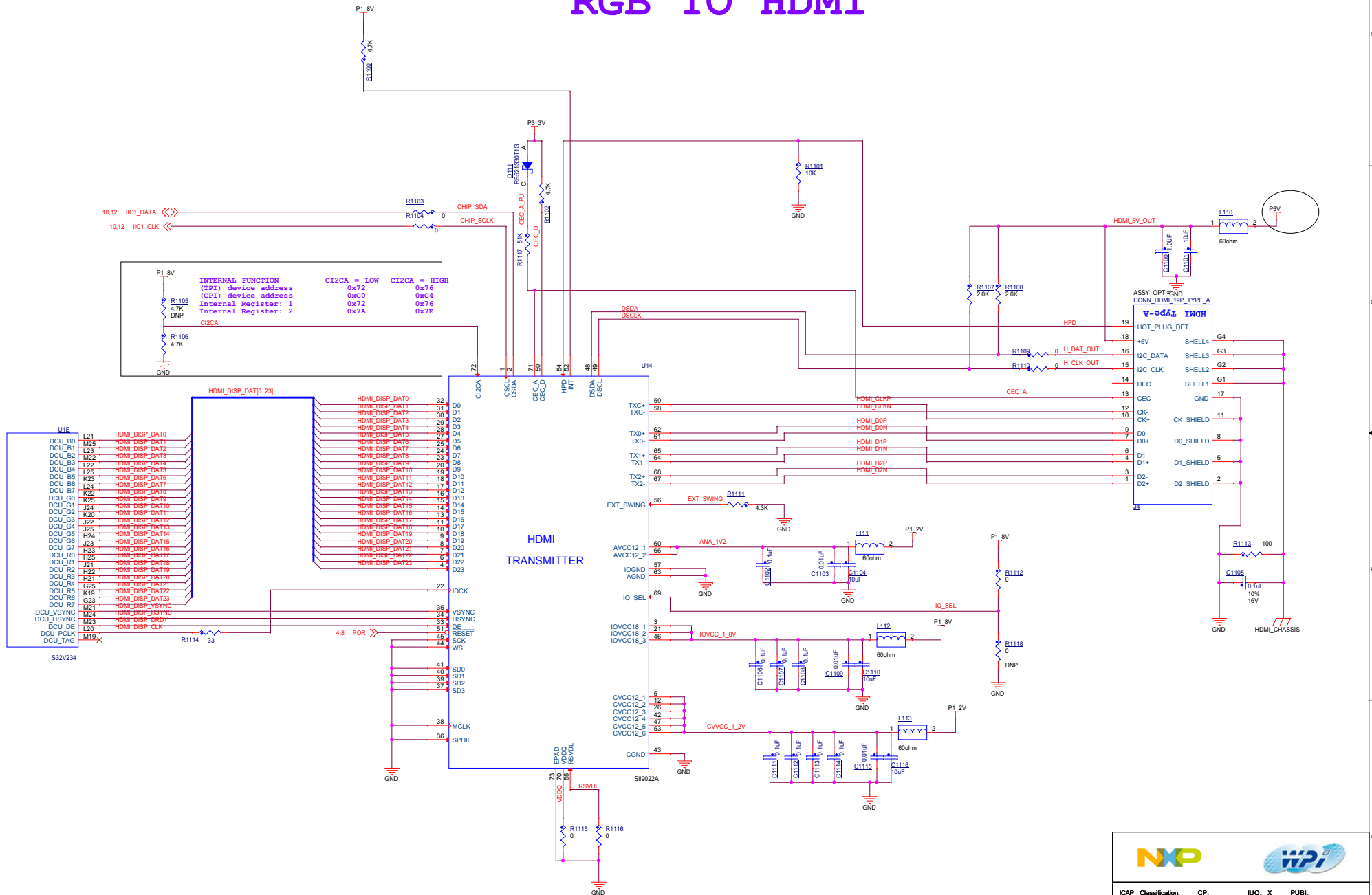
MAX100mA@12V  
for each channel

100uH 电感 电流 80mA, 最大电流为 330mA 最大为 330mA  
电感 100uH 电感 电流 为 300mA 或 到 100mA 的 请 每一 最大 电流 300mA  
L91 电感, 所以 最大 300mA 的 电感, L91 电感= 0.11uH 的 ms12 60T, 需要 重新 做 封装, L91 可 选择 ms1038e

ICAP Classification: CP: ILO: X PUI: X			
Drawing Title: <b>S32V234 ADAS ECU</b>			
Page Title: <b>LVDS POWER</b>			
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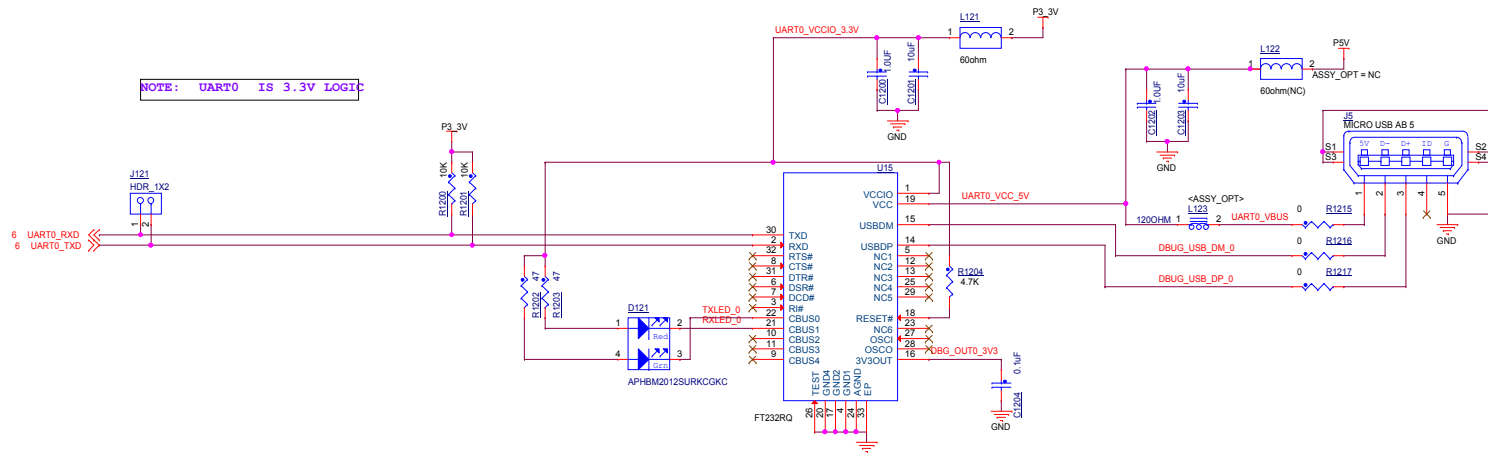


# RGB TO HDMI

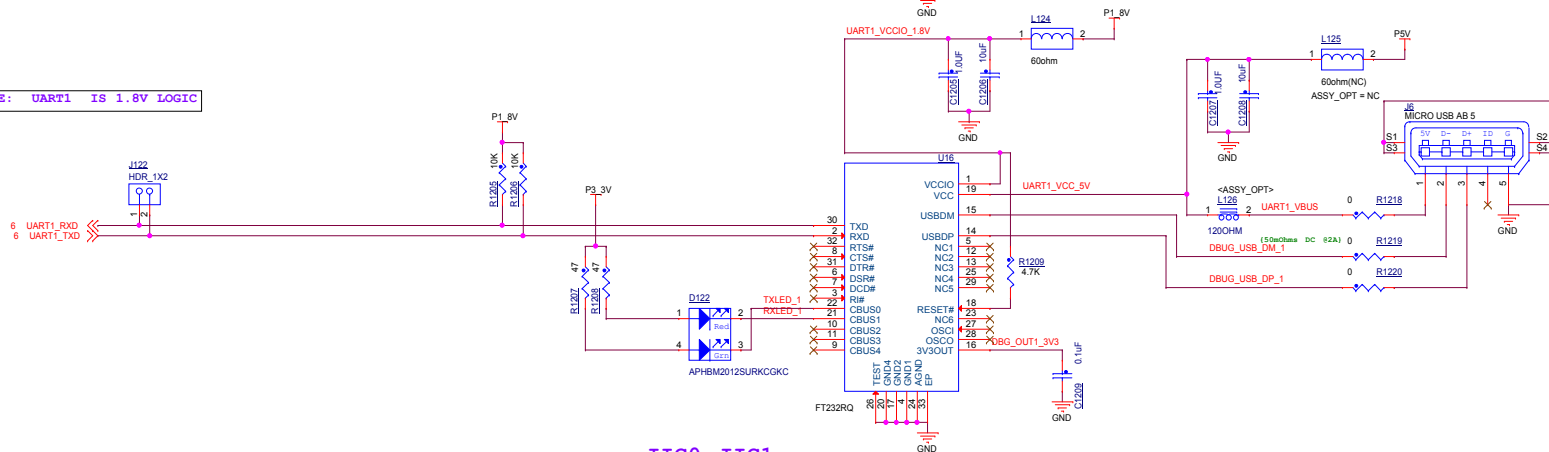


# UART TO USB CONVERSION

NOTE: UART0 IS 3.3V LOGIC

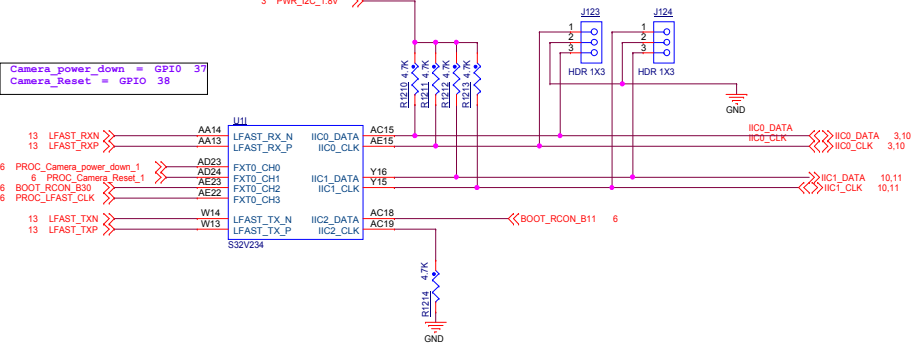


NOTE: UART1 IS 1.8V LOGIC

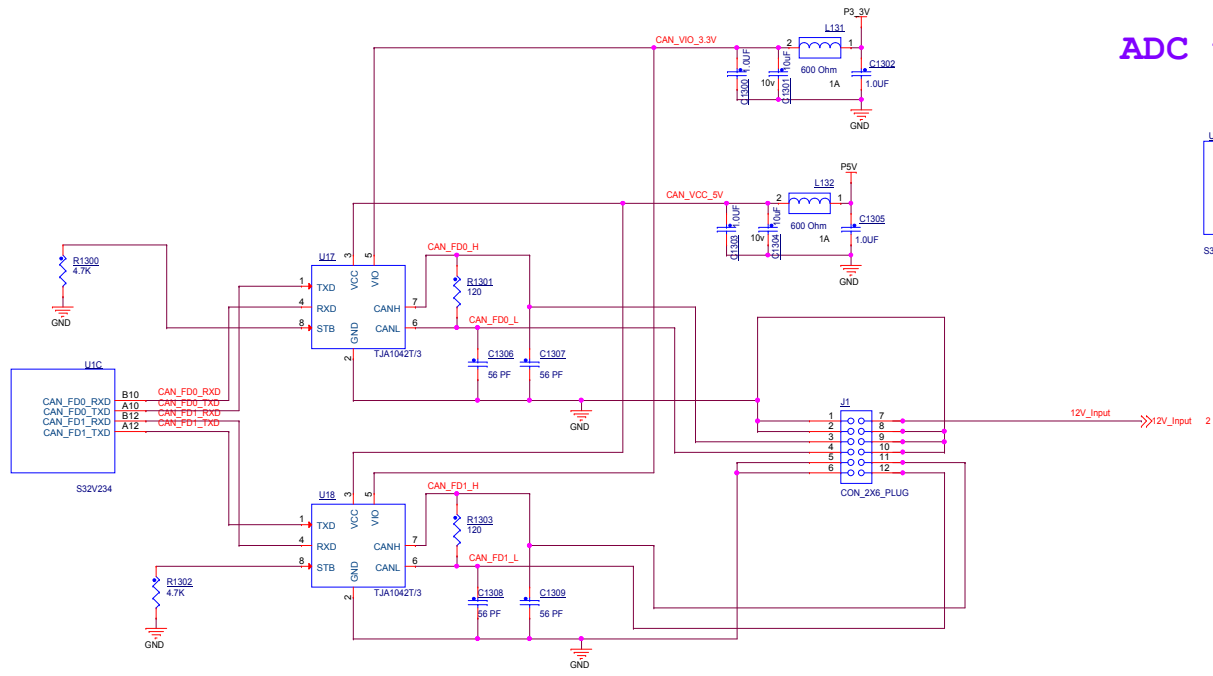


## IIC0 IIC1

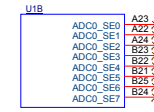
Camera\_power\_down = GPIO 37  
Camera\_Reset = GPIO 38



# CAN Connections

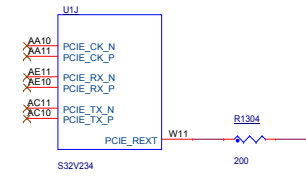


ADC unused



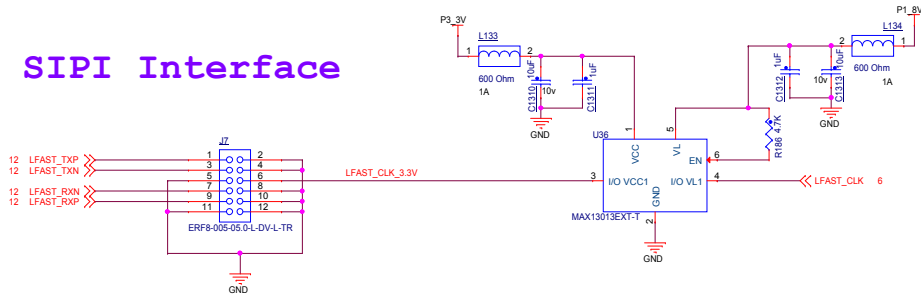
S32V234

PCIe unused



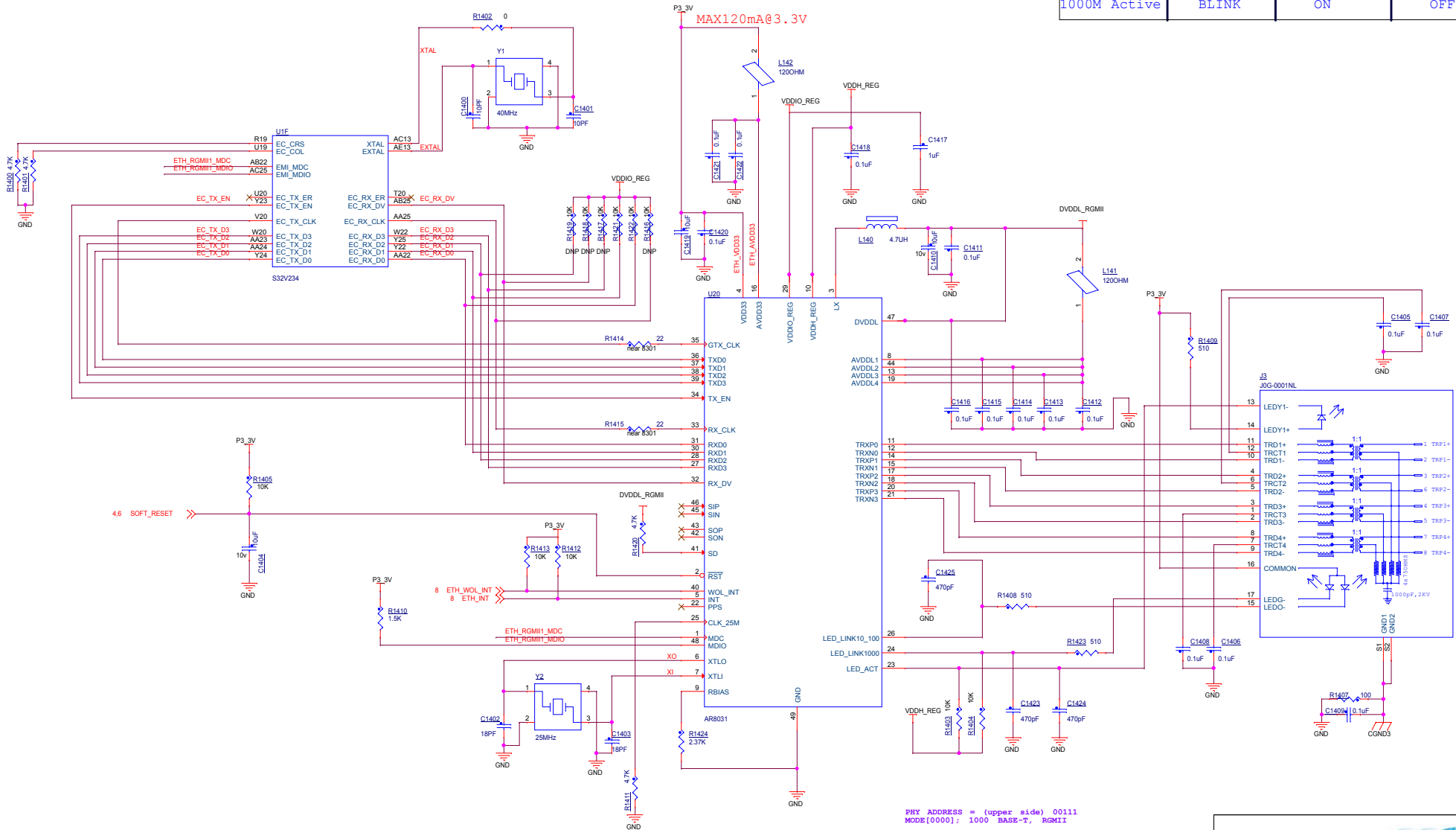
S32V234

# SIPI Interface



# Gb Ethernet

	LED Y	LED G	LED O
10M Link	ON	OFF	OFF
10M Active	BLINK	OFF	OFF
100M Link	ON	OFF	ON
100M Active	BLINK	OFF	ON
1000M Link	ON	ON	OFF
1000M Active	BLINK	ON	OFF



**NXP** **WPI**

ICAP Classification: CP: I/O: X P/B: I:  
 Drawing Title: **S32V234 ADAS ECU**  
 Page Title: **ETHERNET INTERFACE**

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# Debug

