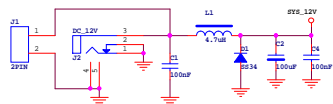
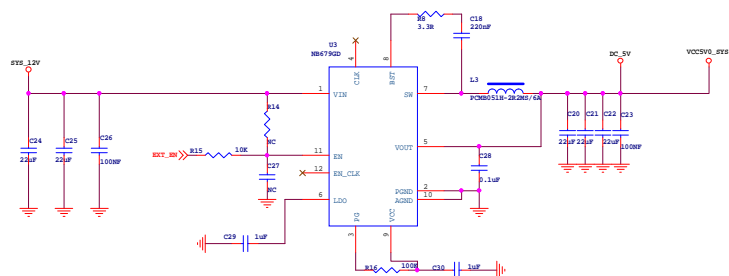
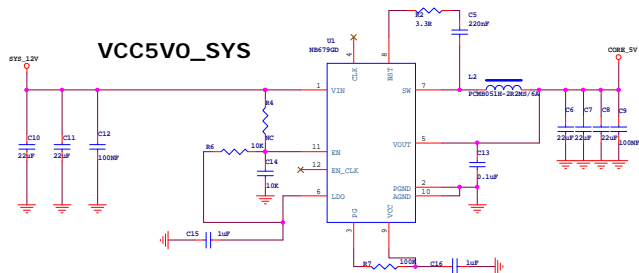




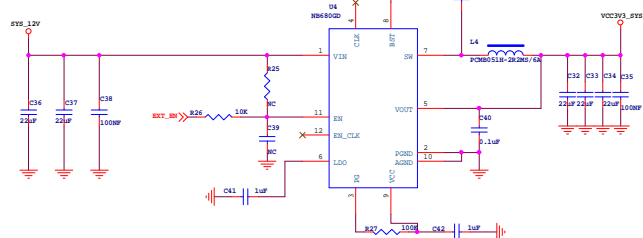
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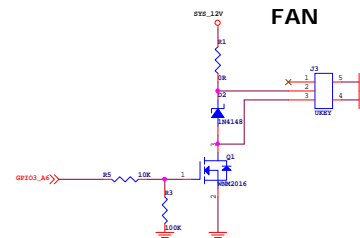
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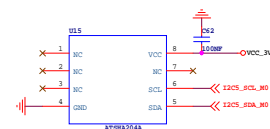
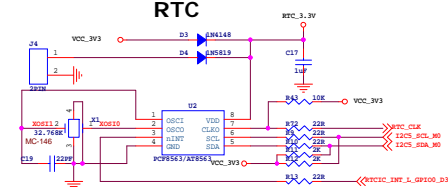
## VCC3V3\_SYS



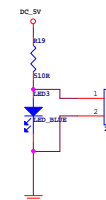
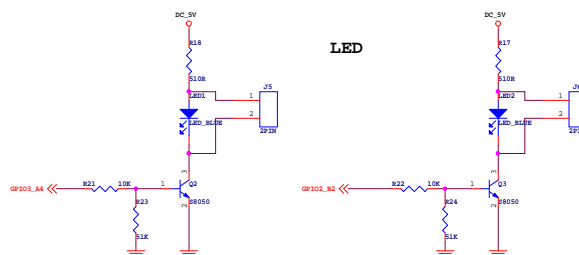
## FAN



## RTC

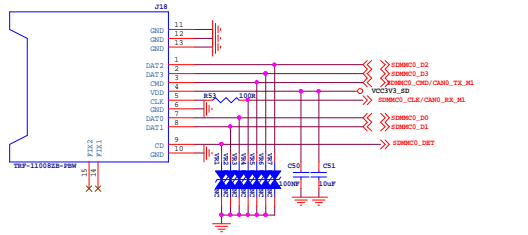


## LED

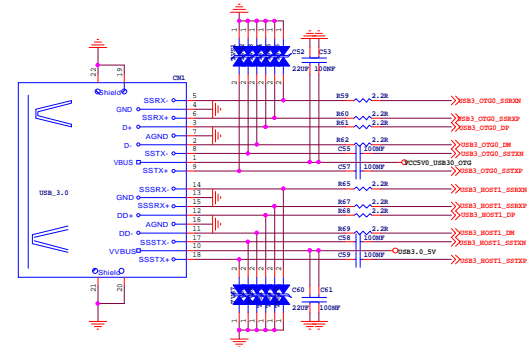




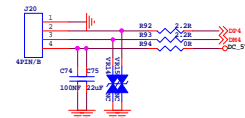
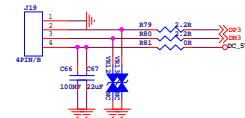
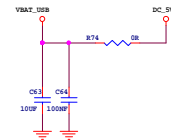
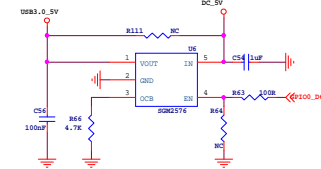
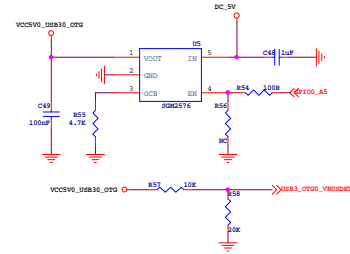
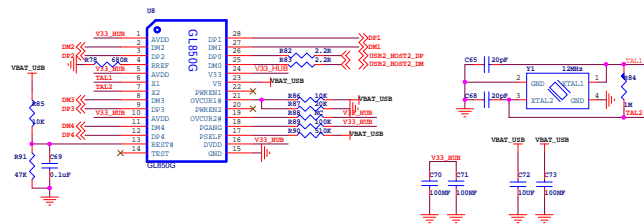
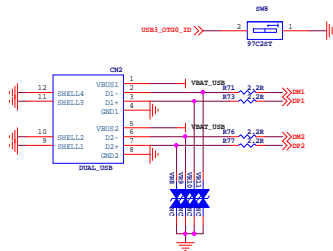
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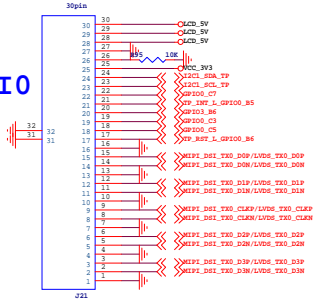
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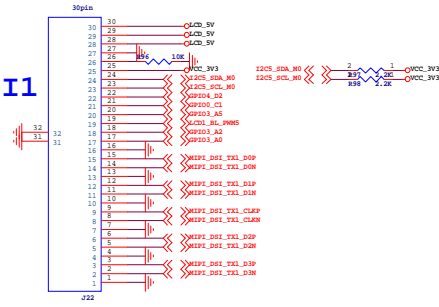
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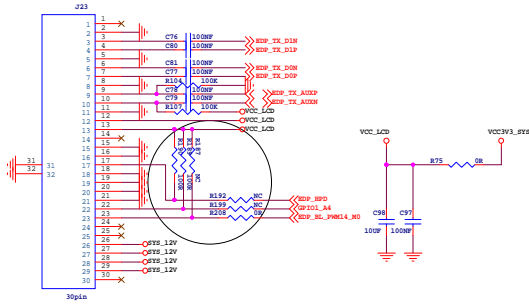
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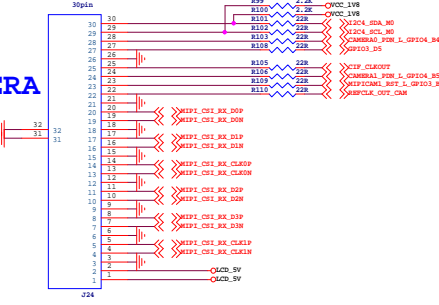
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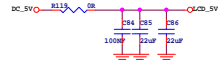
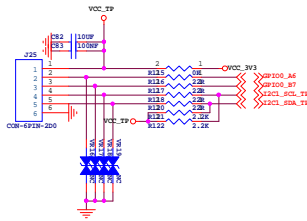
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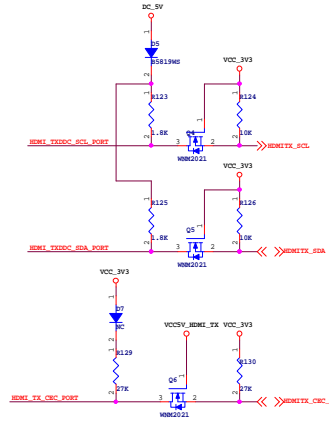
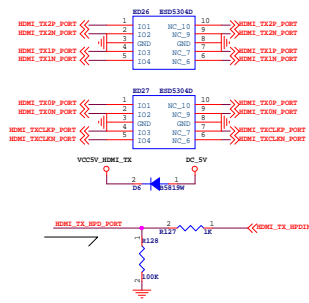
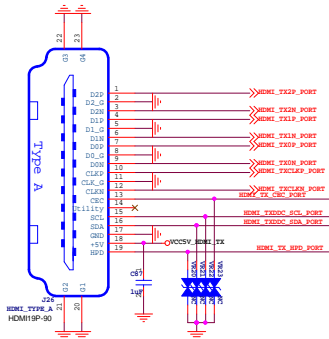
## MIPI CAMERA

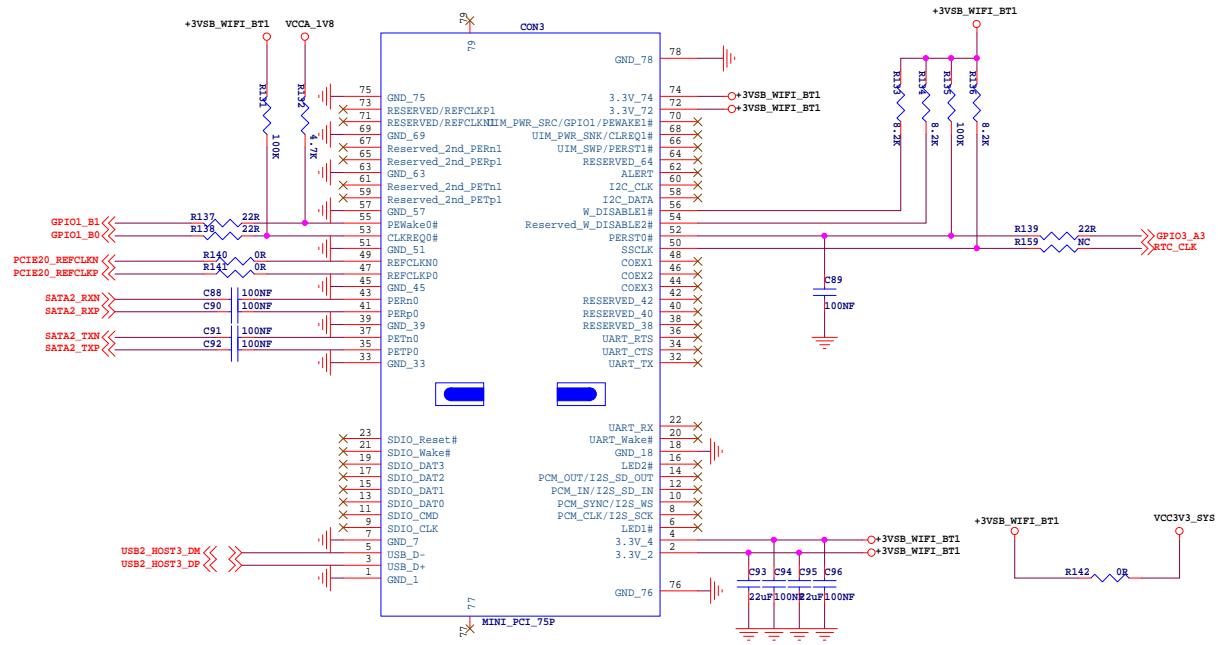


## TP

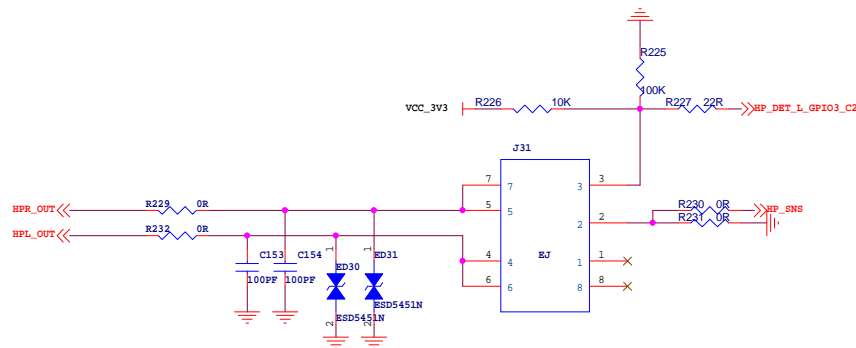
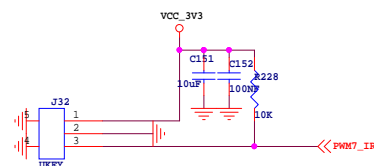
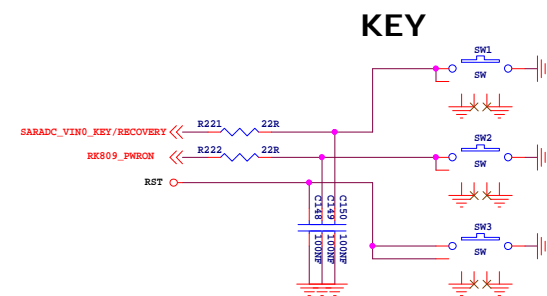
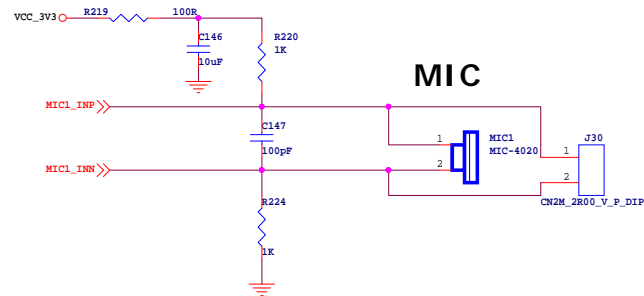
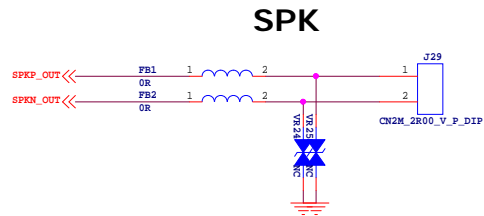


## HDMI







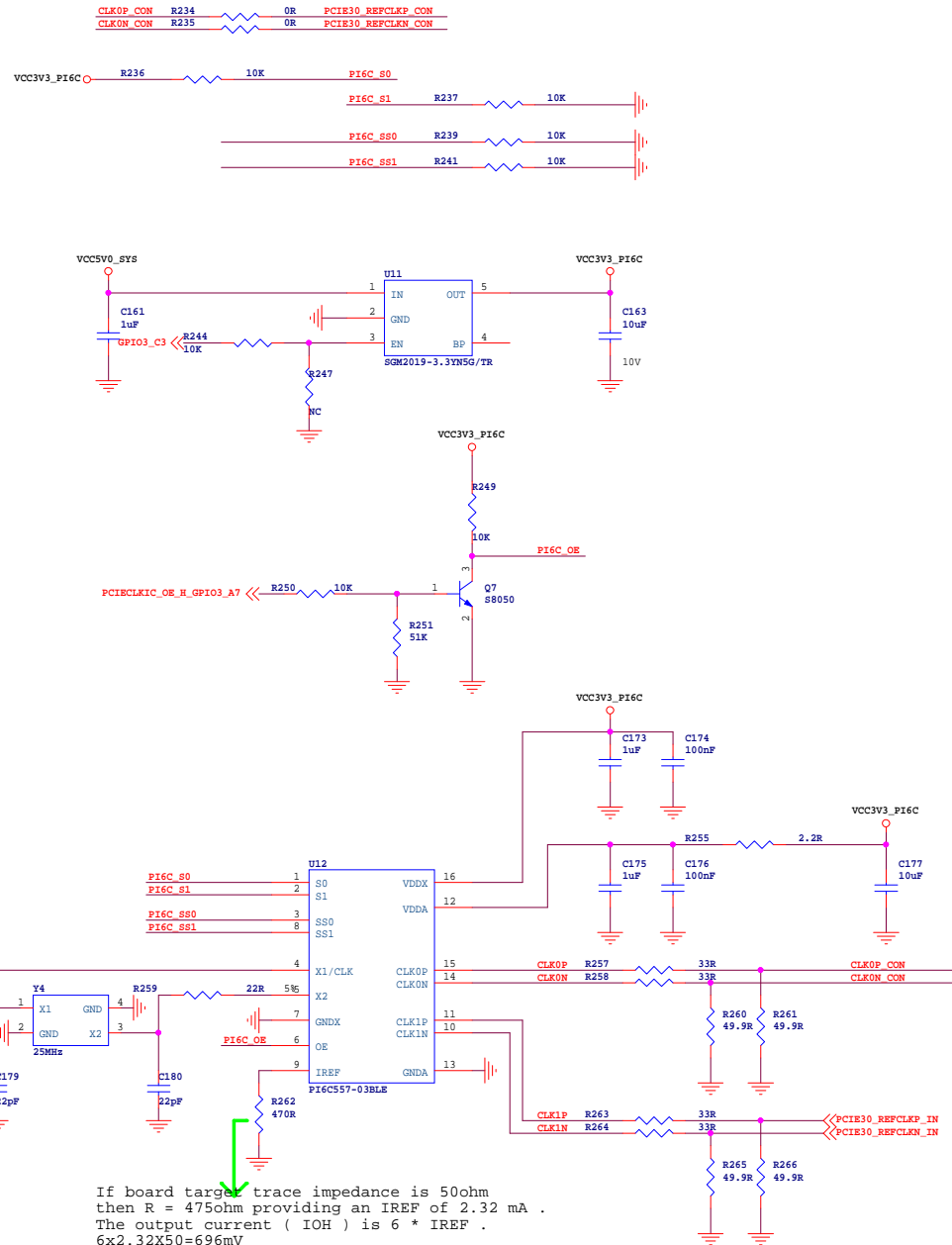
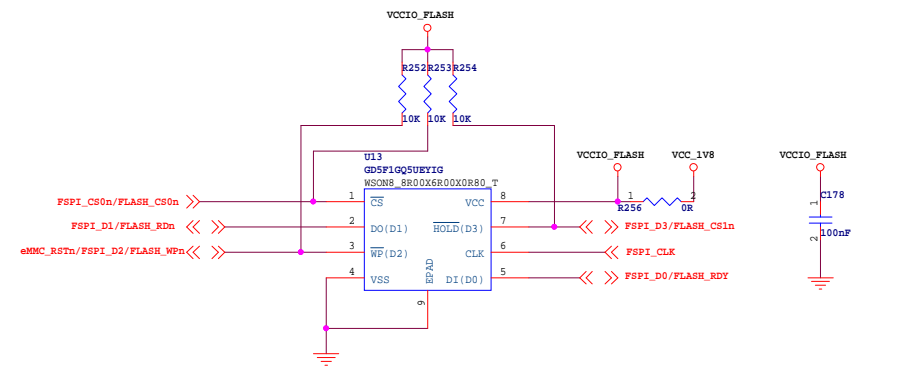





The schematic diagram illustrates the M-Key module's internal connections. The central component is the M-KY microcontroller, which is interfaced with various external components:

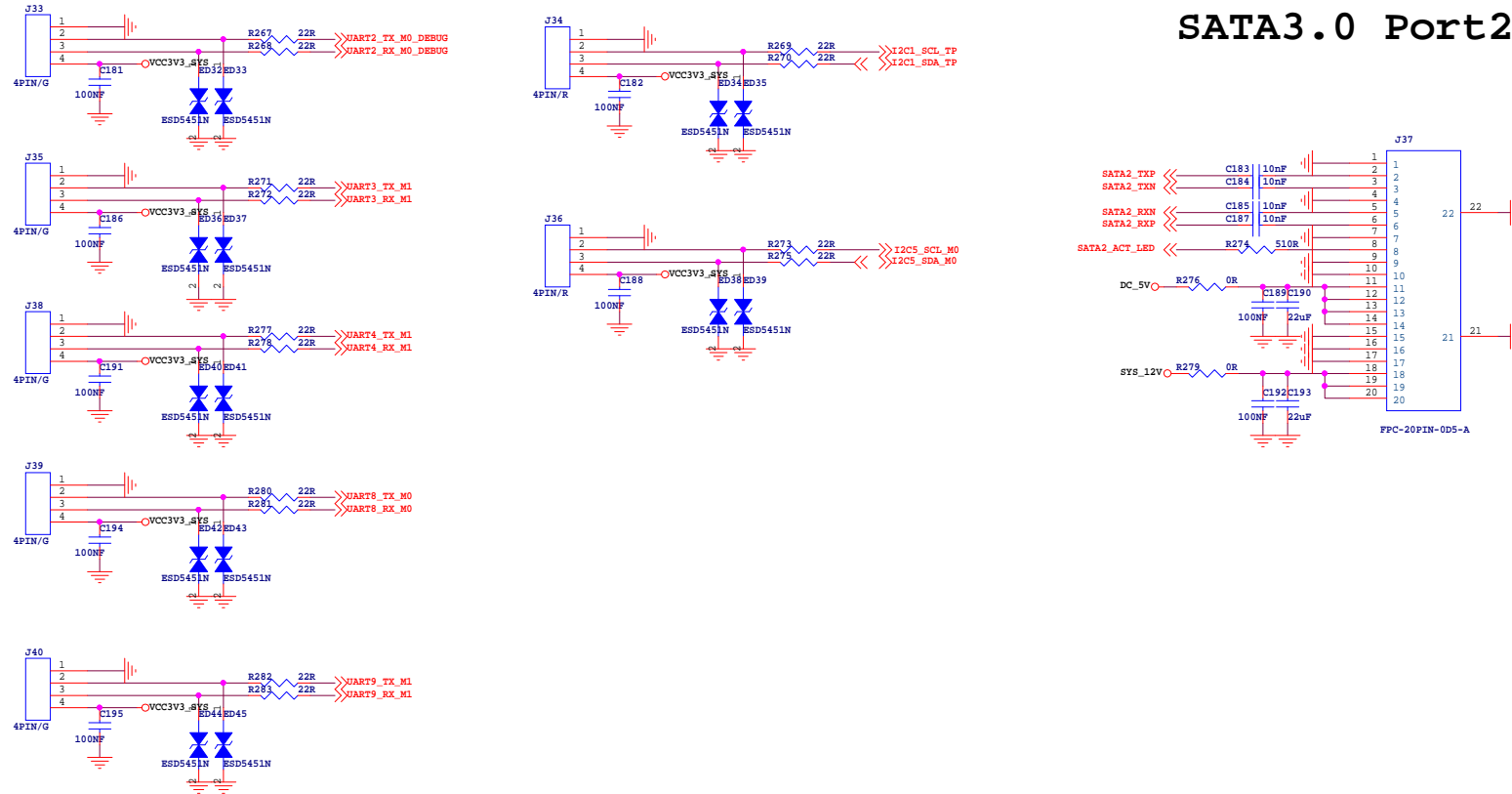
- Power and Ground:** The module is powered by VCC3V3\_PCIE and GND. Key pins include 1 (GND), 3 (GND), 5 (PERn3), 7 (PERp3), 11 (GND), 13 (PETn3), 15 (GND), 17 (PETp3), 19 (PERn2), 21 (PERp2), 23 (GND), 25 (PETn2), 27 (GND), 31 (PERn1), 33 (PERp1), 35 (PETn1), 37 (PETp1), 41 (GND), 43 (PERn0/SATA-B+), 45 (PERp0/SATA-B-), 47 (GND), 49 (PETn0/SATA-A-), 51 (PETp0/SATA-A+), 53 (GND), 55 (REFCLKn), 57 (REFCLKp), 67 (N/C), 69 (SUSCLK), 71 (PEDET), 73 (GND), and 75 (GND).
- PCIE Interface:** The module connects to a PCIE30 controller via pins 151 (VCC3V3\_PCIE), 155 (PCIE30\_RXIN), 157 (PCIE30\_RXIP), 158 (PCIE30\_TXIN), 159 (PCIE30\_TXIP), 160 (PCIE30\_RXON), 162 (PCIE30\_RXOF), 164 (PCIE30\_TXON), 165 (PCIE30\_TXOP), 166 (REFCLKM\_COW), 167 (REFCLKM\_COW), 170 (VCC3V3\_PCIE), 171 (VCC3V3\_PCIE), 172 (VCC3V3\_PCIE), 173 (VCC3V3\_PCIE), 174 (VCC3V3\_PCIE), 175 (VCC3V3\_PCIE), 176 (VCC3V3\_PCIE), 177 (VCC3V3\_PCIE), 178 (VCC3V3\_PCIE), 179 (VCC3V3\_PCIE), 180 (VCC3V3\_PCIE), 181 (VCC3V3\_PCIE), 182 (VCC3V3\_PCIE), 183 (VCC3V3\_PCIE), 184 (VCC3V3\_PCIE), 185 (VCC3V3\_PCIE), 186 (VCC3V3\_PCIE), 187 (VCC3V3\_PCIE), 188 (VCC3V3\_PCIE), 189 (VCC3V3\_PCIE), 190 (VCC3V3\_PCIE), 191 (VCC3V3\_PCIE), 192 (VCC3V3\_PCIE), 193 (VCC3V3\_PCIE), 194 (VCC3V3\_PCIE), 195 (VCC3V3\_PCIE), 196 (VCC3V3\_PCIE), 197 (VCC3V3\_PCIE), 198 (VCC3V3\_PCIE), 199 (VCC3V3\_PCIE), 200 (VCC3V3\_PCIE), 201 (VCC3V3\_PCIE), 202 (VCC3V3\_PCIE), 203 (VCC3V3\_PCIE), 204 (VCC3V3\_PCIE), 205 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## SPI Flash



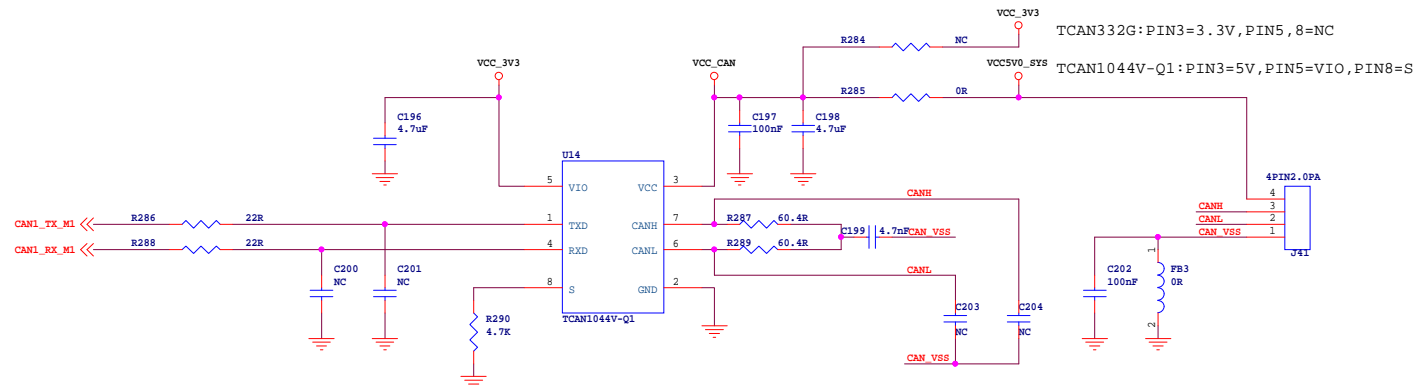
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## SATA3.0 Port2




## CAN1\_M1

## CAN transceiver IC



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