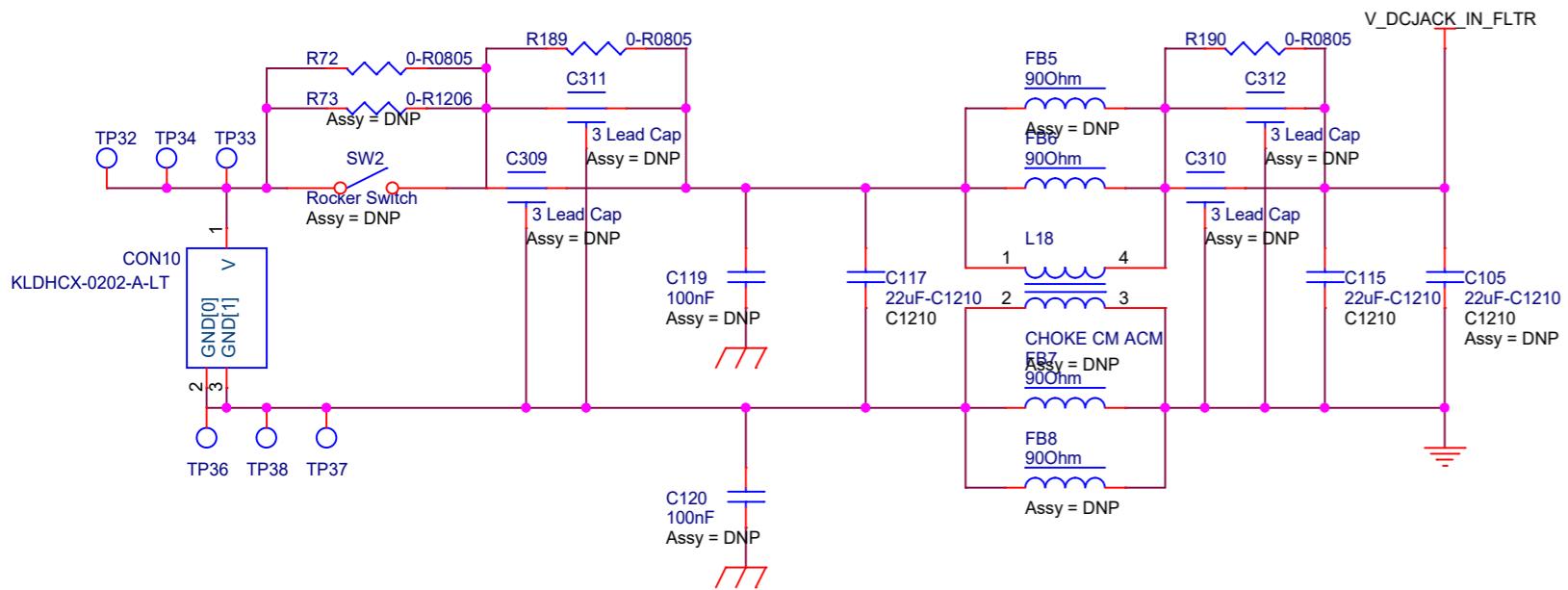
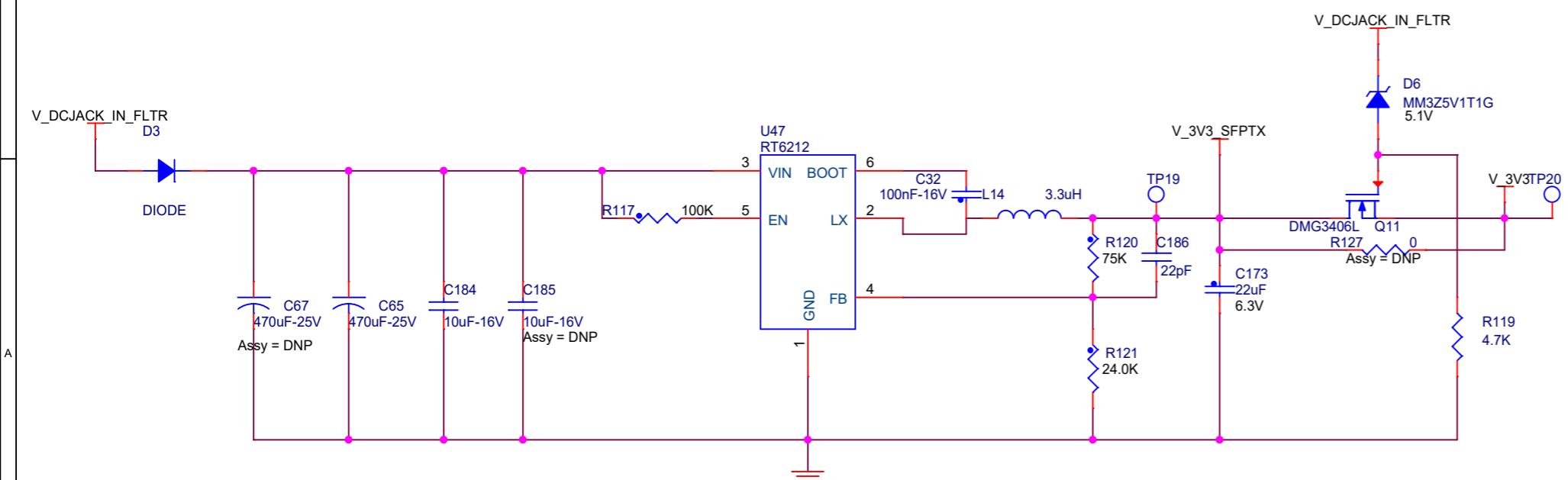
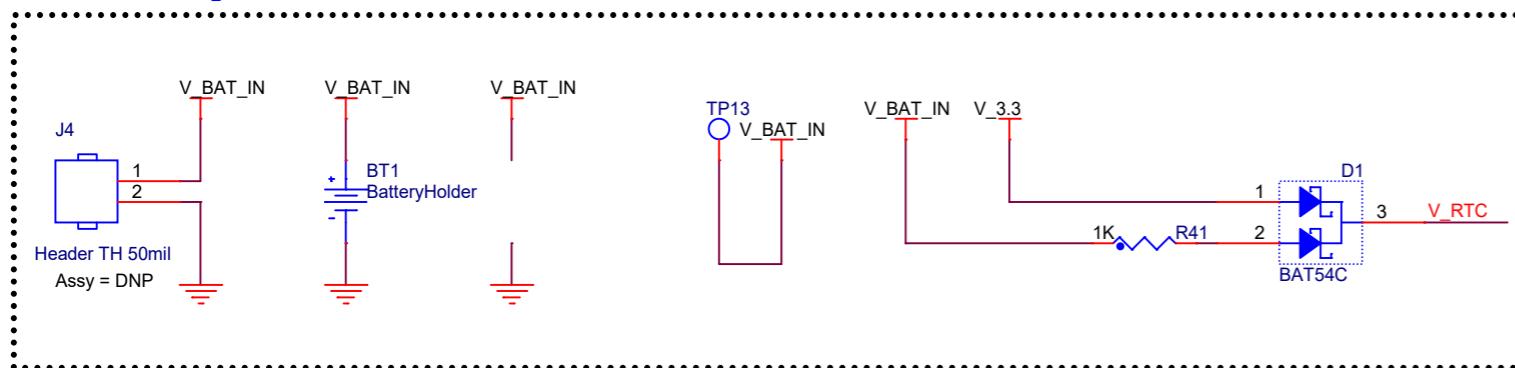
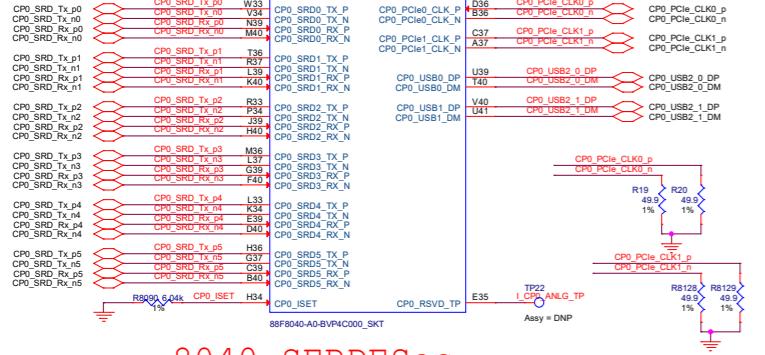


Power Jack

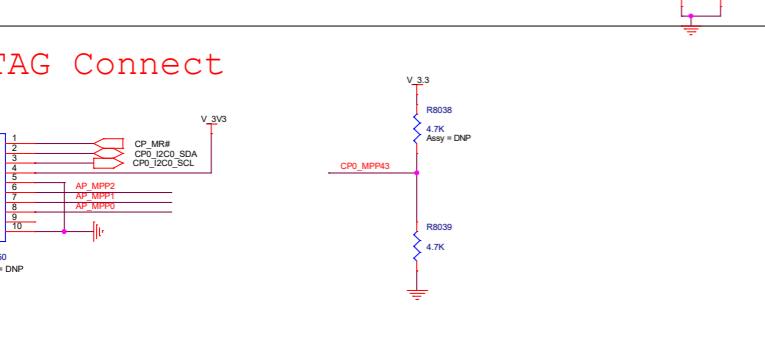
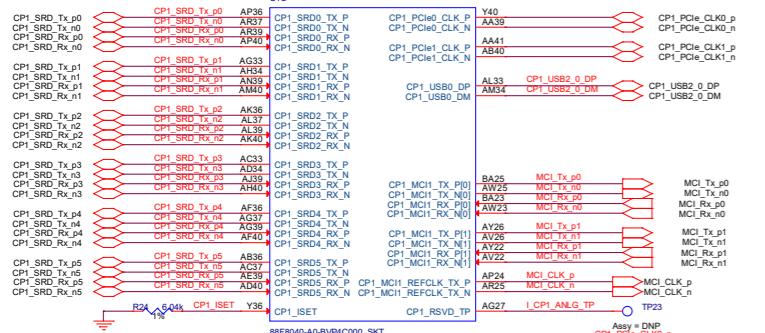


**RTC Voltage
3.0v battery**

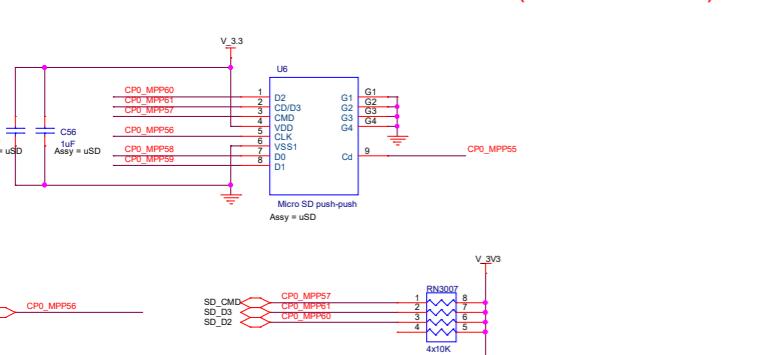




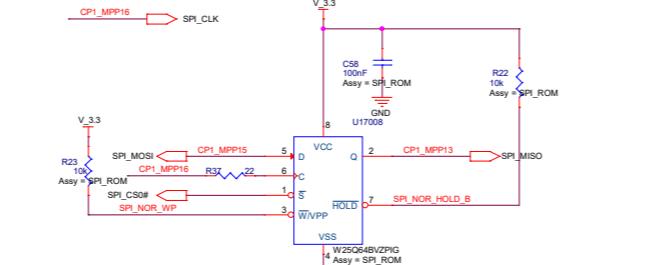
8040 SERDEs



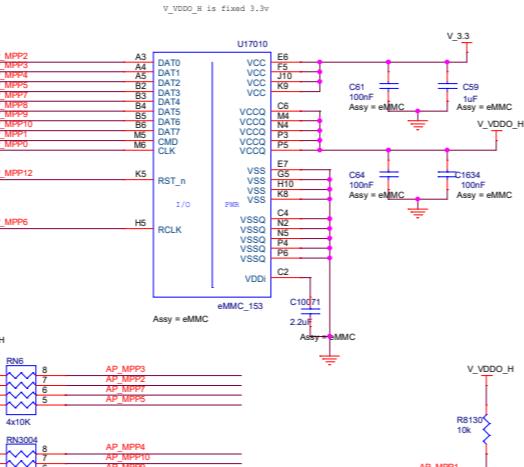
micro SD connector (bootable)



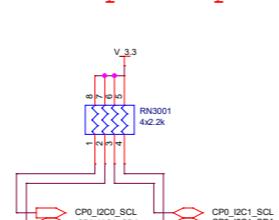
64Mb SPI flash (bootable)



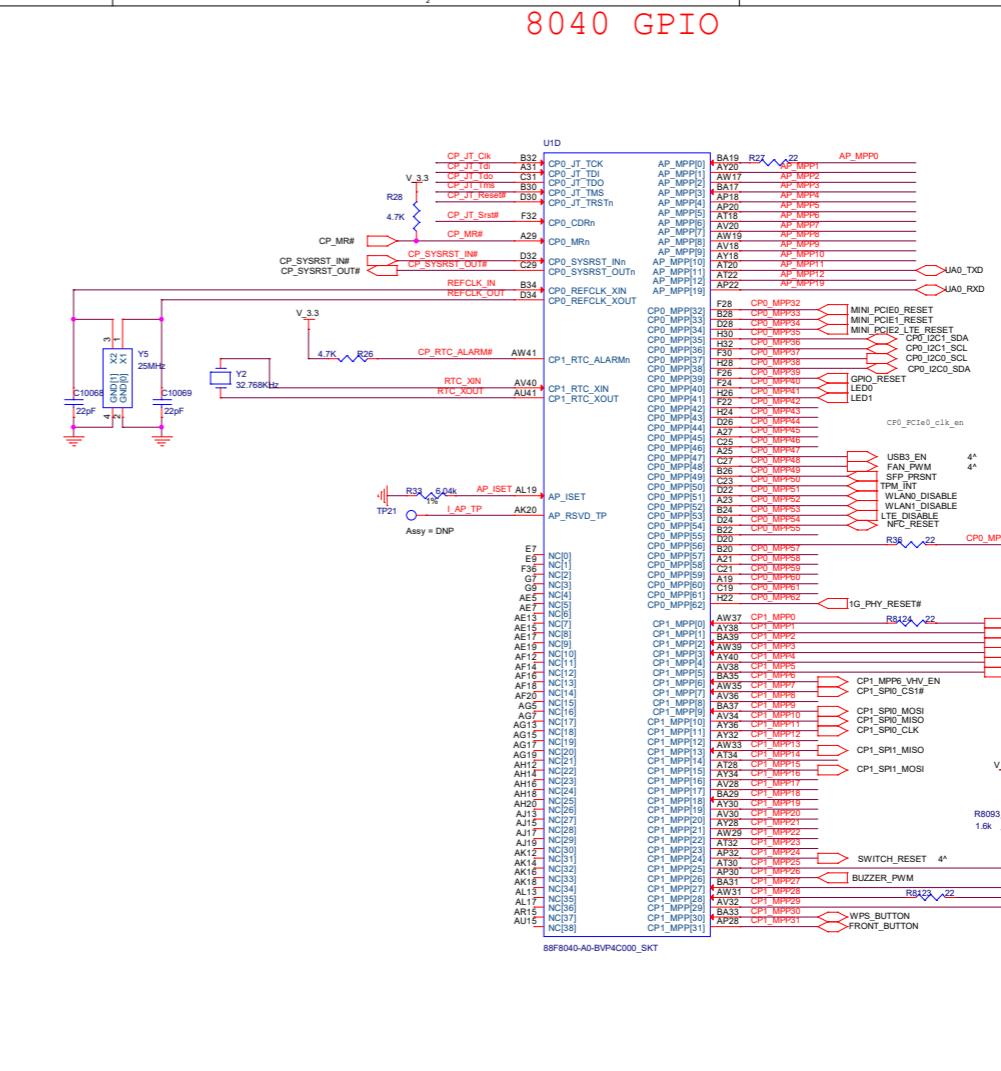
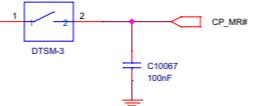
eMMC (bootable)



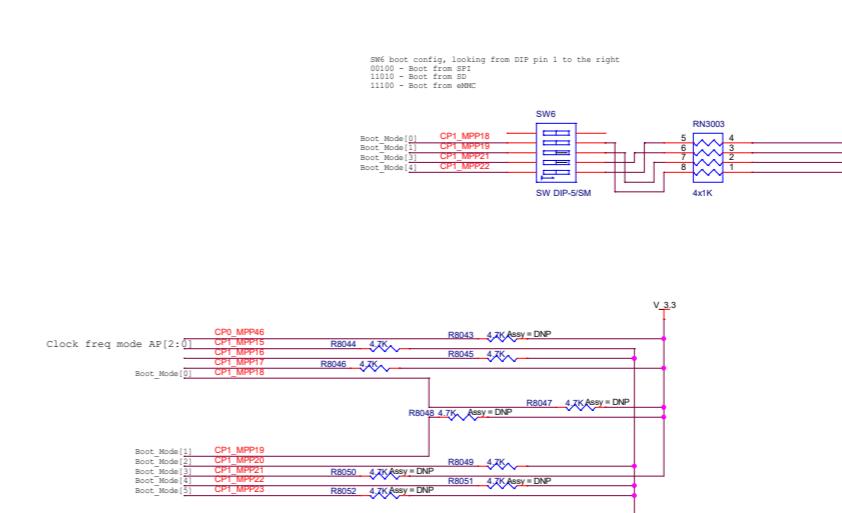
SEP+ T2C pullups



Reset logic

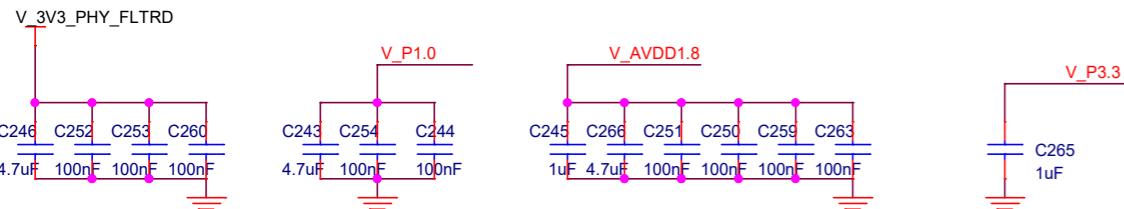
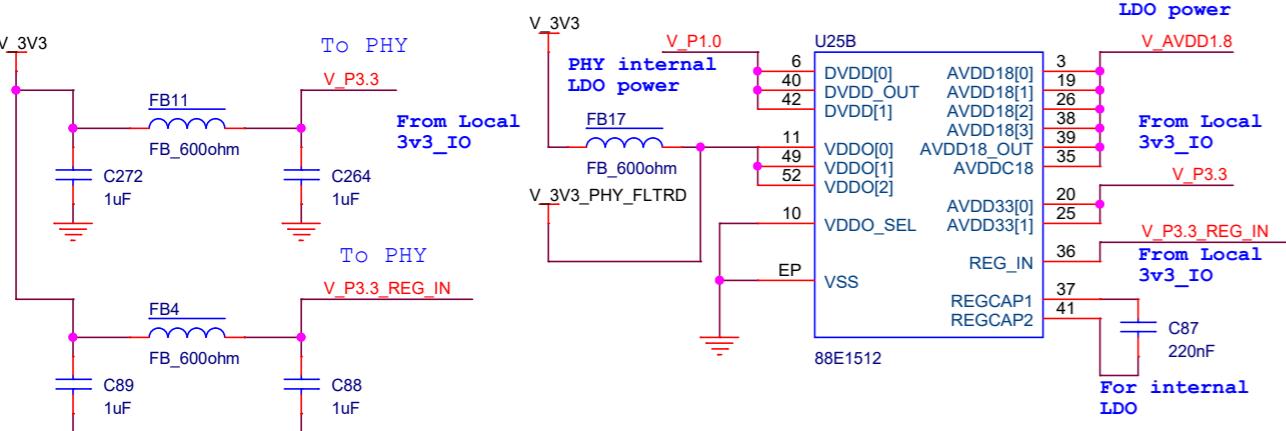


Armada 8040 Boot Select



PHY Power configurations

88E1512 power configurations:
1. using internal 1v8 and 1v0 regulators.



PHY0 - RGMII0 Function as GE0 Port

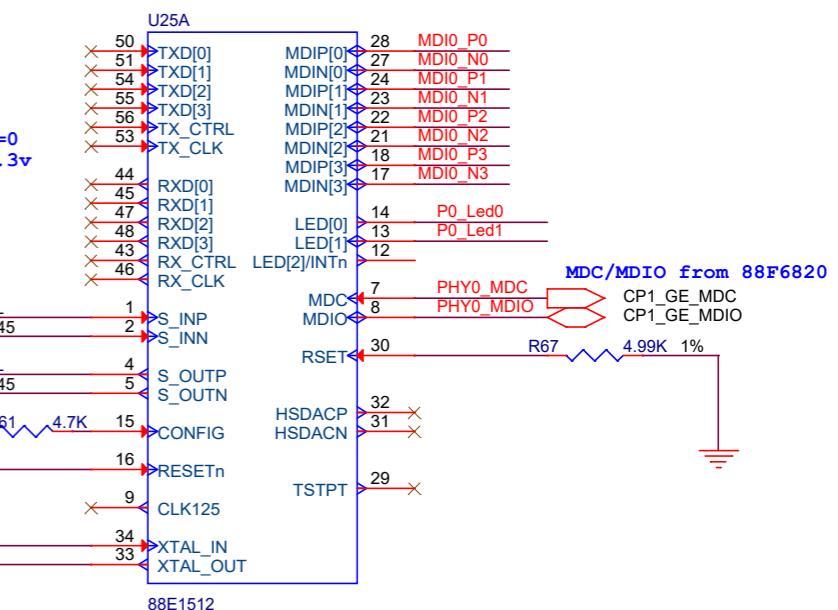
PHYADD configuration

88E1512 PHY configuration options:
PHY_address=1

Table 53: Configuration Mapping

Pin	CONFIG Bit1	CONFIG Bit 0	Value Assignment
CONFIG	0	0	PHYAD[0] = 0 VDDO_LEVEL ¹ = 3.3V
CONFIG	1	1	PHYAD[0] = 1 VDDO_LEVEL ¹ = 3.3V
CONFIG	1	0	PHYAD[0] = 0 VDDO_LEVEL ¹ = 2.5V
CONFIG	0	1	PHYAD[0] = 1 VDDO_LEVEL ¹ = 2.5V

¹ This is valid only for 88E1510/88E1512. For 88E1513, the VDDO_LEVEL is fixed at 1.8V, hence the bit mapping for VDDO_LEVEL is ignored.



Review (P2): Make sure LED connection according to common practice (Link/Activity vs Speed).

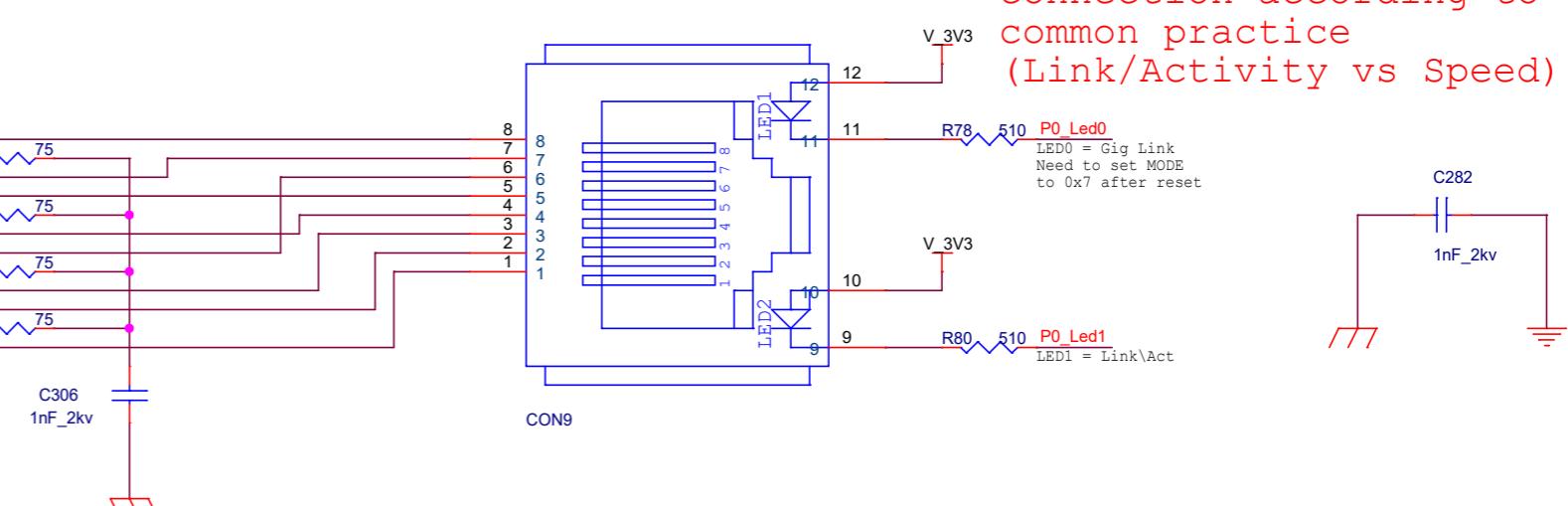
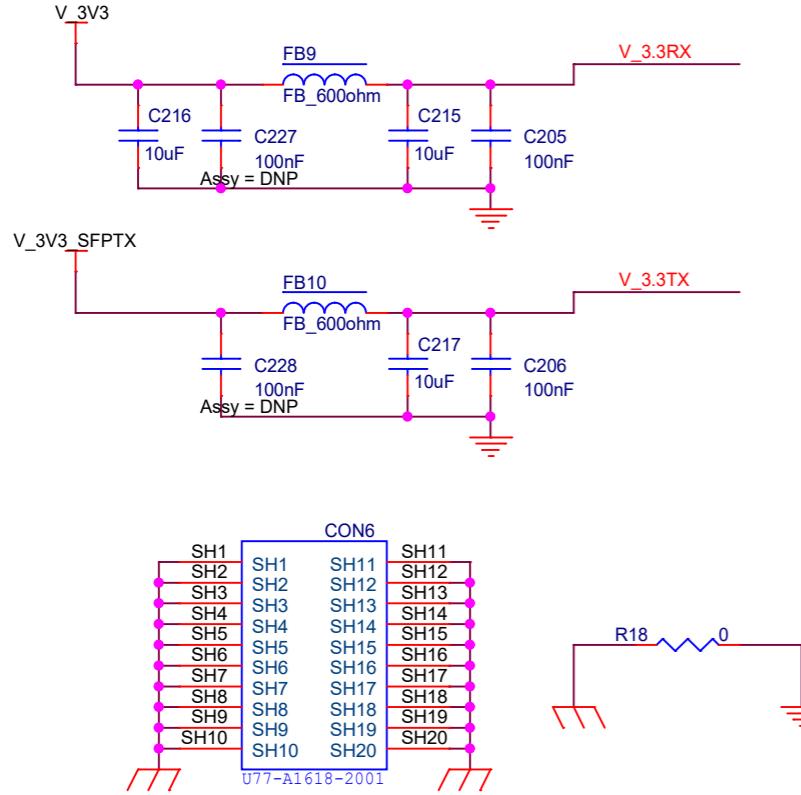


Table 53: Configuration Mapping

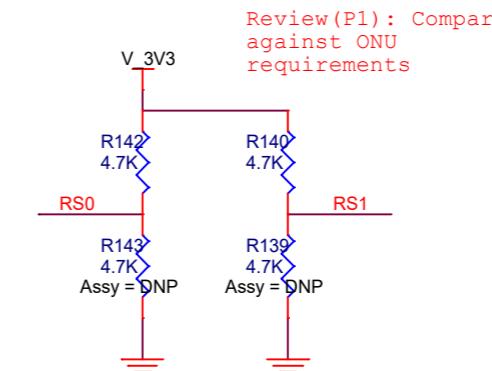
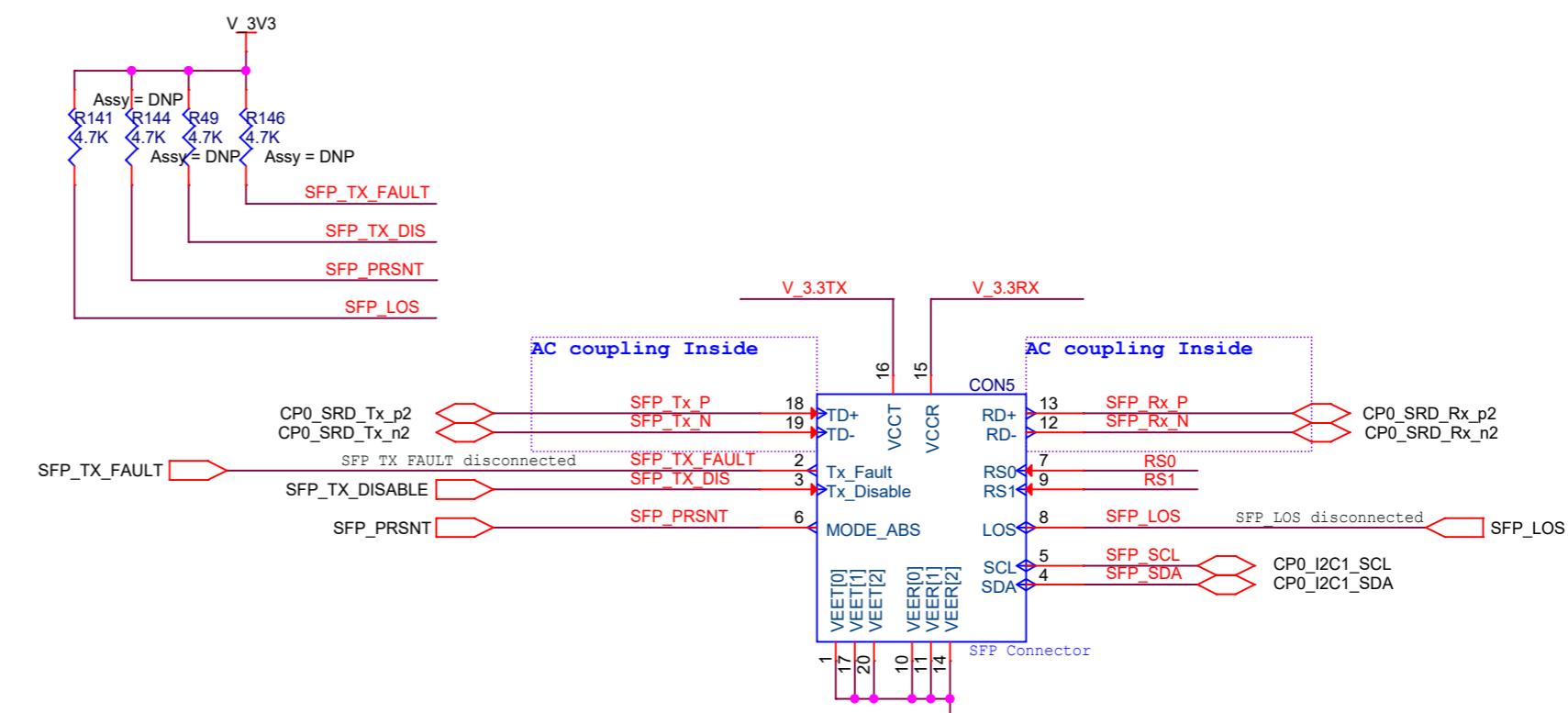
Pin	CONFIG Bit1	CONFIG Bit 0	Value Assignment
CONFIG	0	0	PHYAD[0] = 0 VDDO_LEVEL ¹ = 3.3V
CONFIG	1	1	PHYAD[0] = 1 VDDO_LEVEL ¹ = 3.3V
CONFIG	1	0	PHYAD[0] = 0 VDDO_LEVEL ¹ = 2.5V
CONFIG	0	1	PHYAD[0] = 1 VDDO_LEVEL ¹ = 2.5V

¹ This is valid only for 88E1510/88E1512. For 88E1513, the VDDO_LEVEL is fixed at 1.8V, hence the bit mapping for VDDO_LEVEL is ignored.

Notice that SFP TX supply is separated from the other.
This supplies ONUs with more than 10msec when sudden power failure occurs.

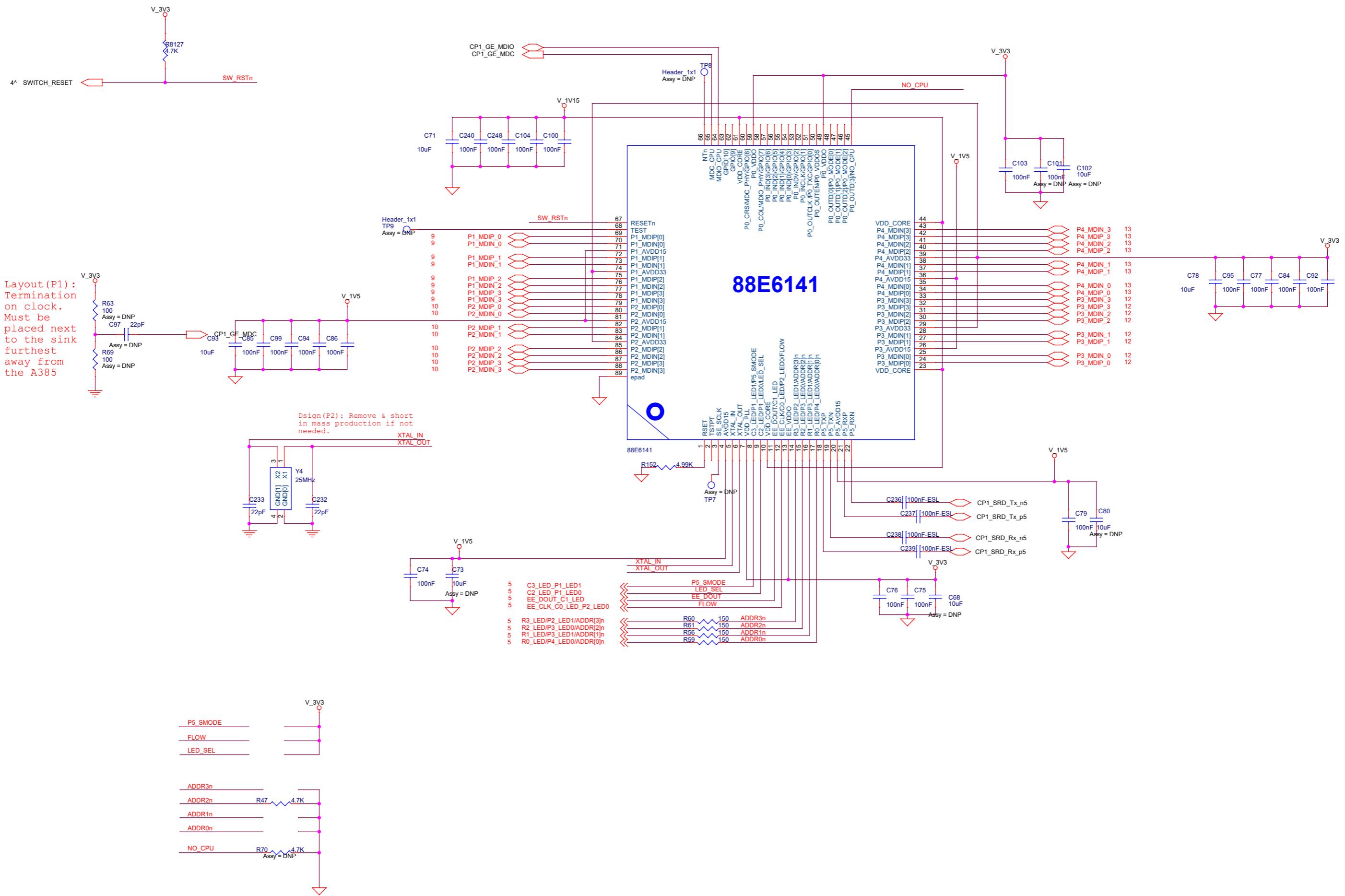


SFP connector

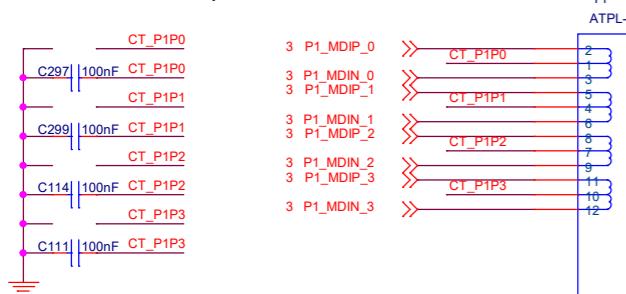
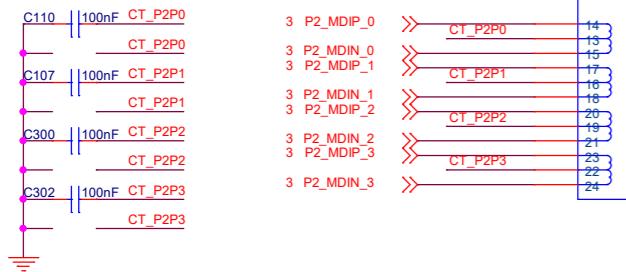
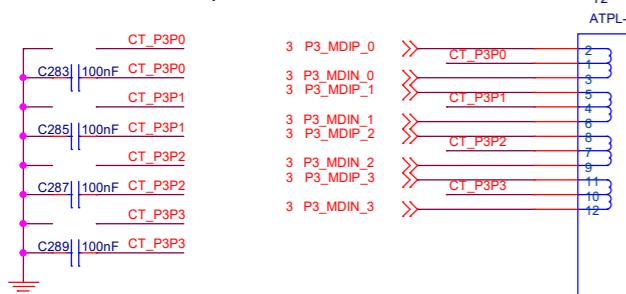
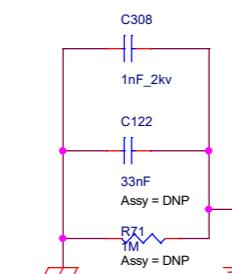
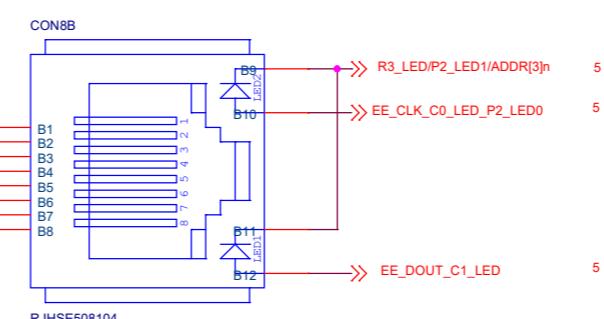
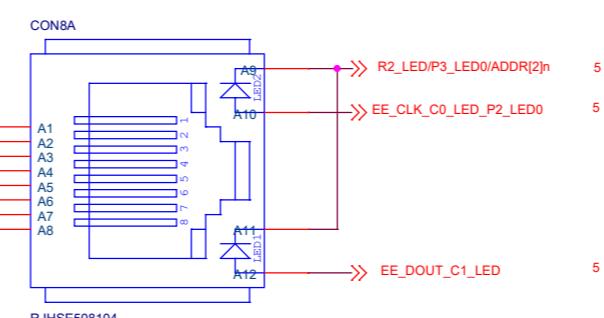
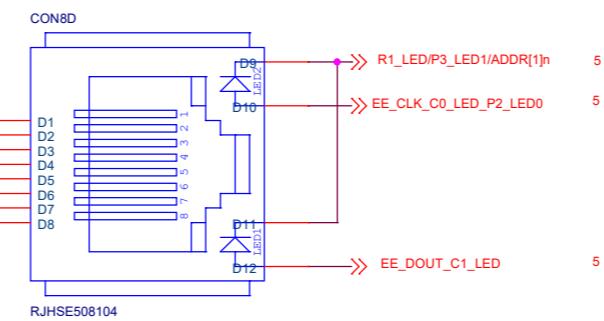
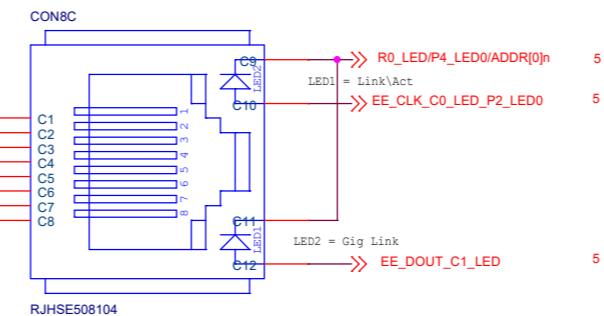
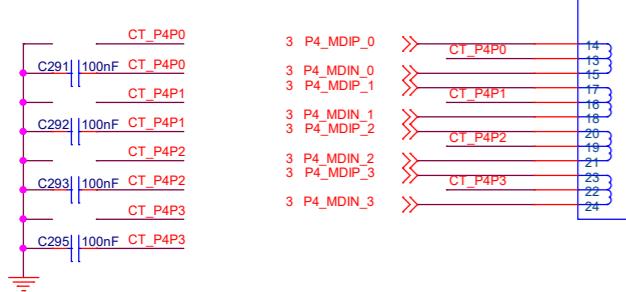


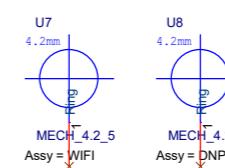
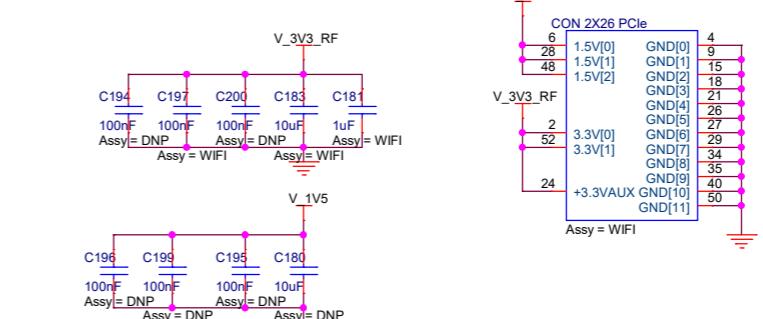
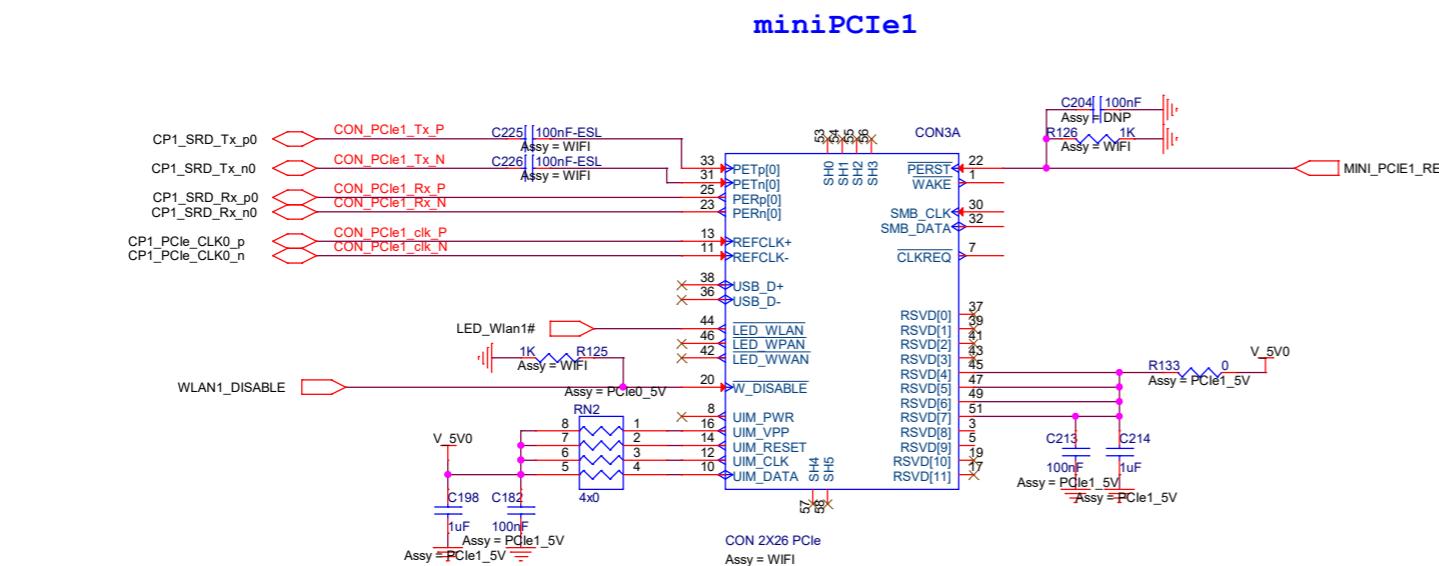
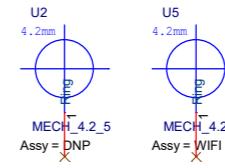
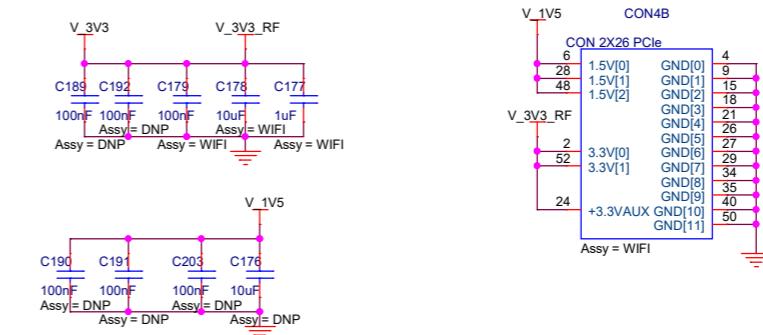
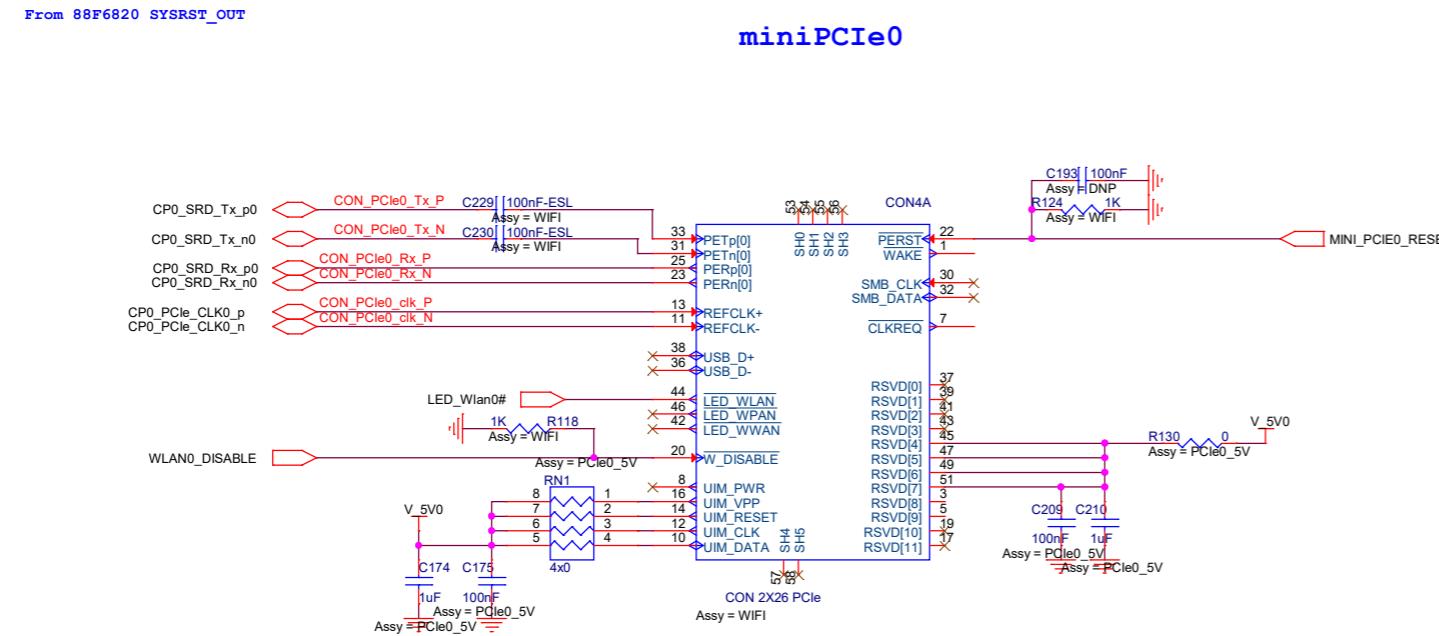
88E6141 Switch

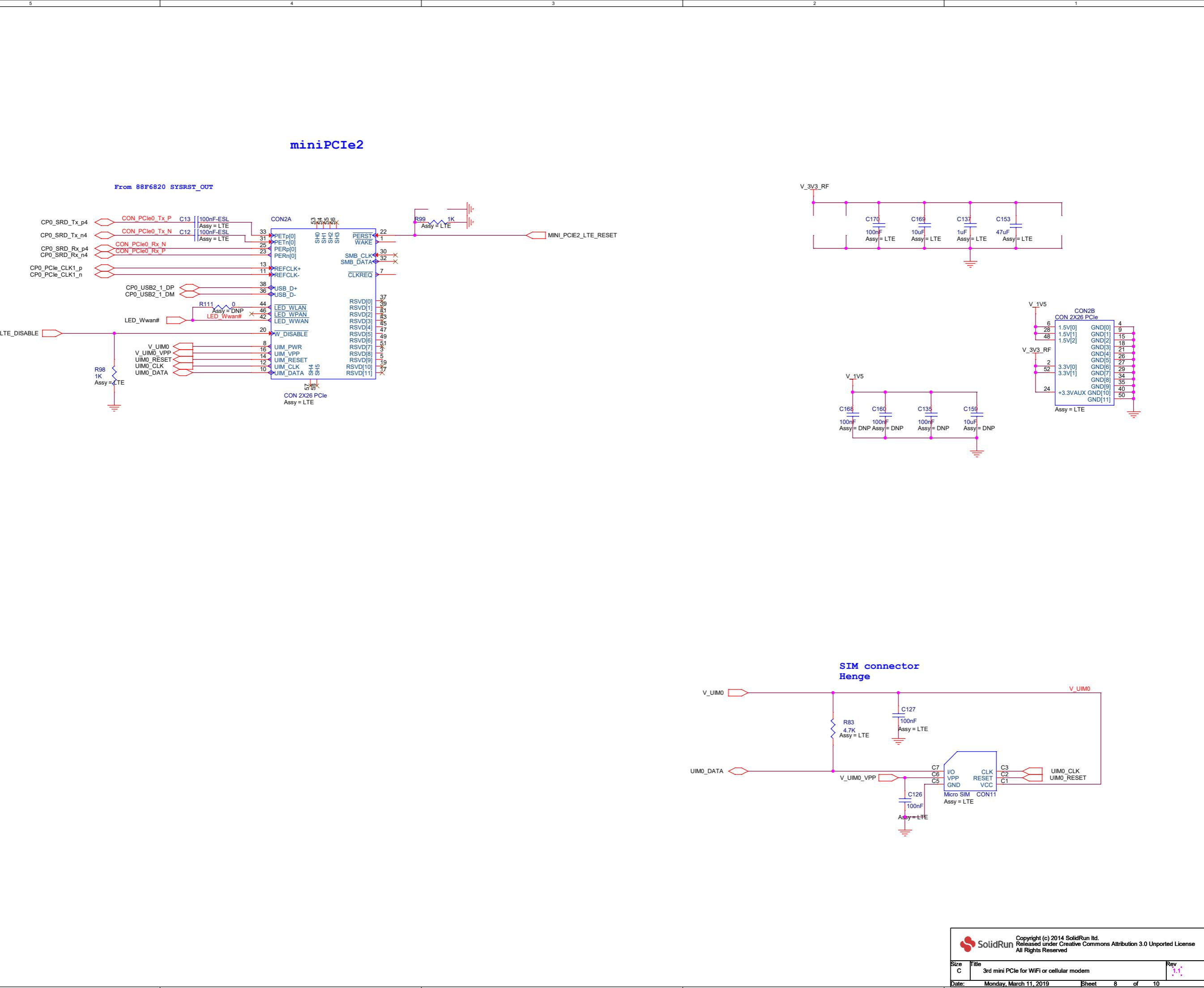
Switch RESET Options:



Combo 4 ports 1Gbps connector

PORT-2 MDI I/F

PORT-1 MDI I/F

PORT-4 MDI I/F

PORT-3 MDI I/F






MV USB3.0 HOST

