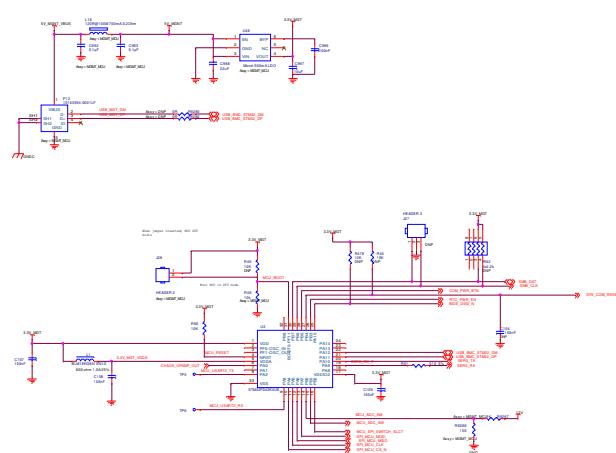


Management

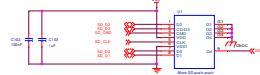
(Assy = MGMT)

Management block connected to multinode BMC -

1. Vbus powered (via 3.3v LDO)
2. USART2 pins PA2 (MCU TX) and PA3 (MCU RX) connected to application processor. Do not use USART1/2 on pins 14,15,8,9 since they are used for DFU mode.
3. USB DFU on pins PA11,PA12
4. I2C1 CLK/MISO/MOSI on PA5/PA6/PA7
5. SPI1 / PB1 analog in (first 48v and second amplified current shunt voltage drop)



micro SD connector (bootable)

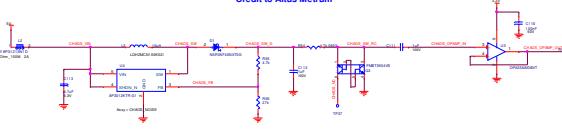


Single Tone Buzzer



Noise generator ChaosKey

Credit to Altus Metrum



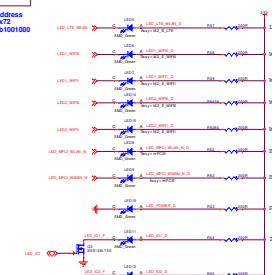
FAN

(Assy = FAN_HEADER)



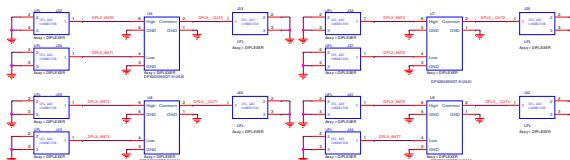
Status LEDs

(Assy = STATUS_LEDs)



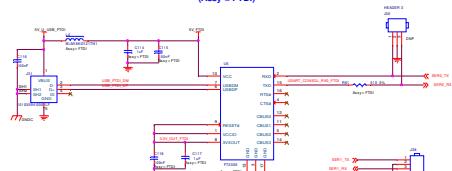
Diplexers

(Assy = DIPLEXERS)



Onboard micro USB to serial console

(Assy = FTDI)



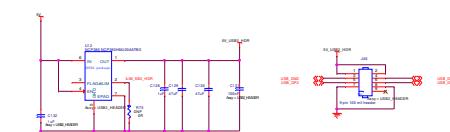
RTC Battery



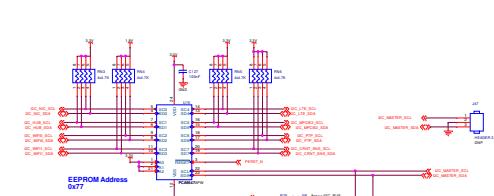
Reroute & RESET Buttons



USB 2.0 Header

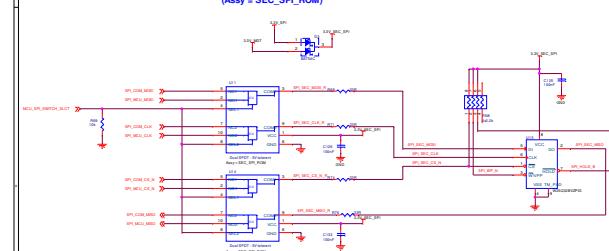


I2C buffer



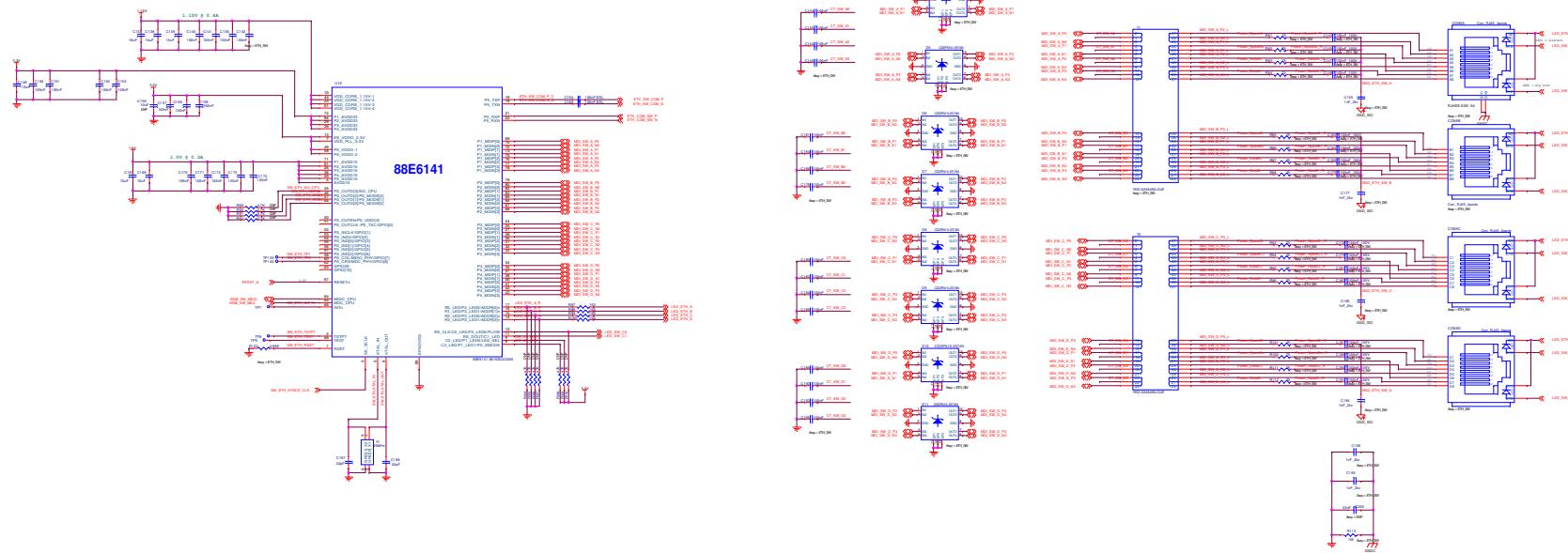
Secondary (FailSafe) Flash

(Assy = SEC_SPI_ROM)



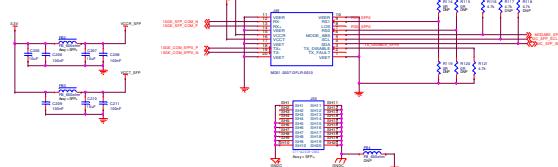
4x 1GbE SW

(Assy = ETH_SW)



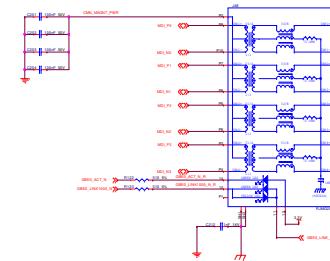
10GbE SFP+

(Assy = SFP+)



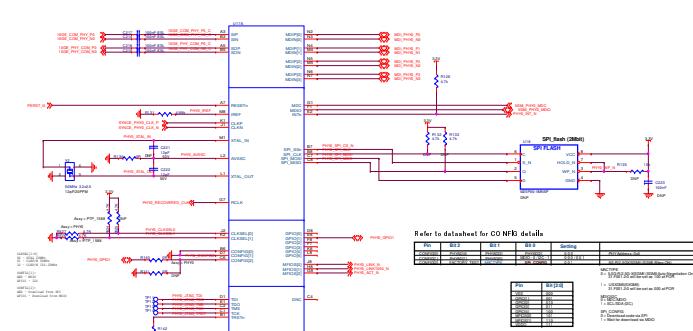
RJ45 1GbE

(Assy = RJ45_MDI)



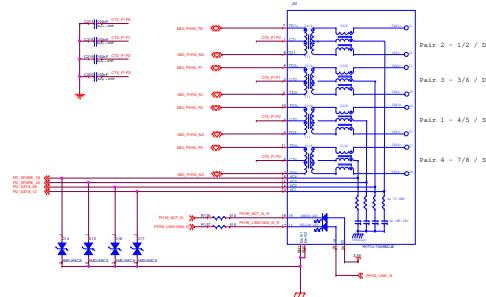
88E2110 5GbE PHY0

(Assy = PHY0)



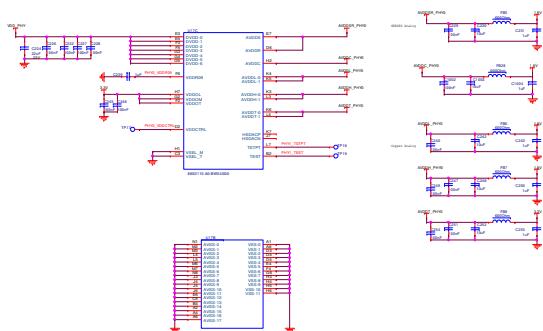
10GbE RJ45 Port PD

(Assy = PHYC)



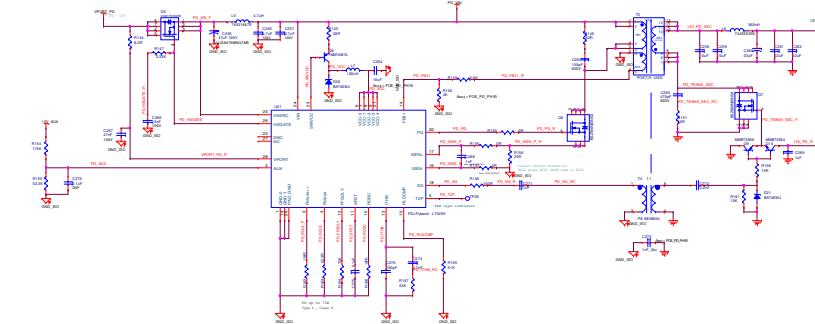
PoE IDEAL DIODE BRIDGE

(Assy = POE_PD_PHY)



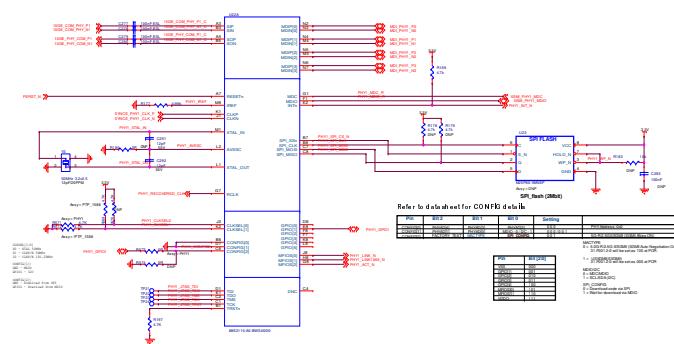
802.3bt PD Controller + Flyback 12V@5.5A

(Assy = POE_PD_PHY)

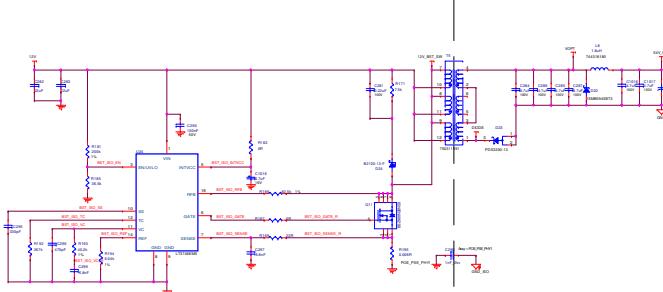


88E2110 5GbE PHY1

(Assy = PHY1)

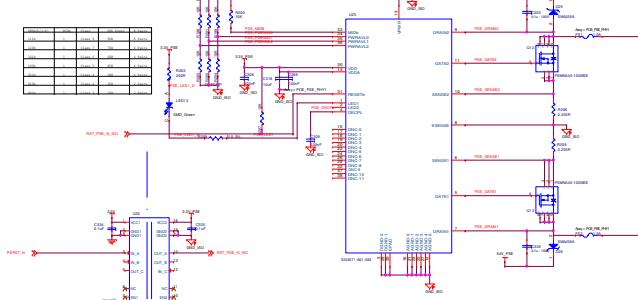


boost 12V to 54V@0.7A



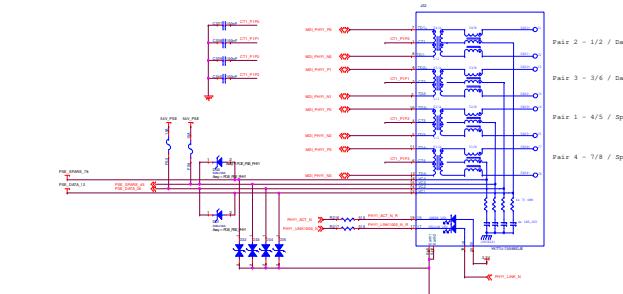
PSE Controller

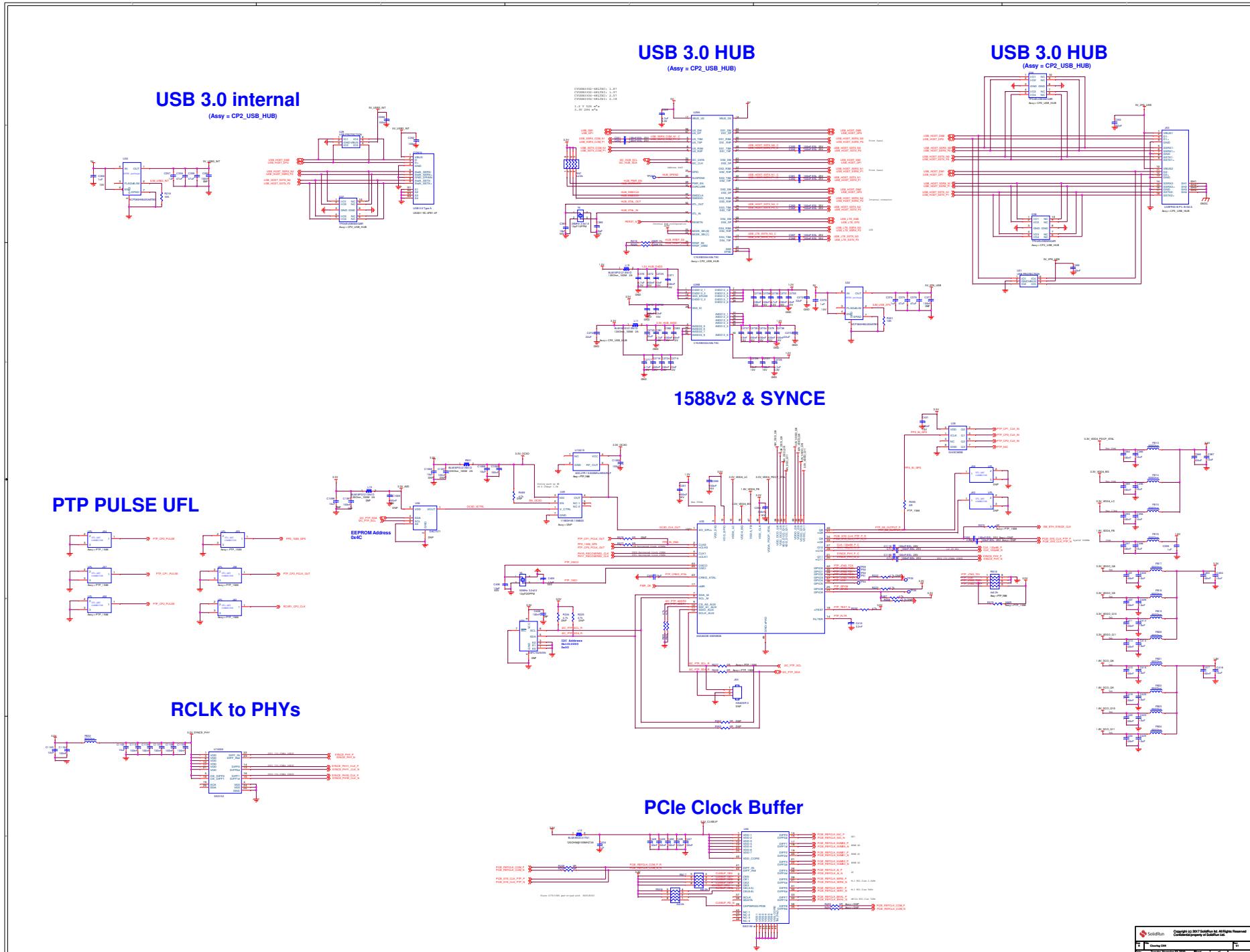
POE_PSE_PHY1



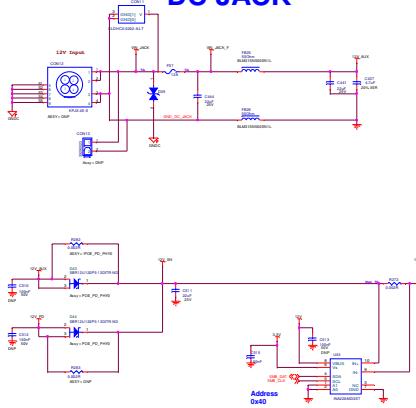
5GbE RJ45 Port PSE

(Assy = PH)

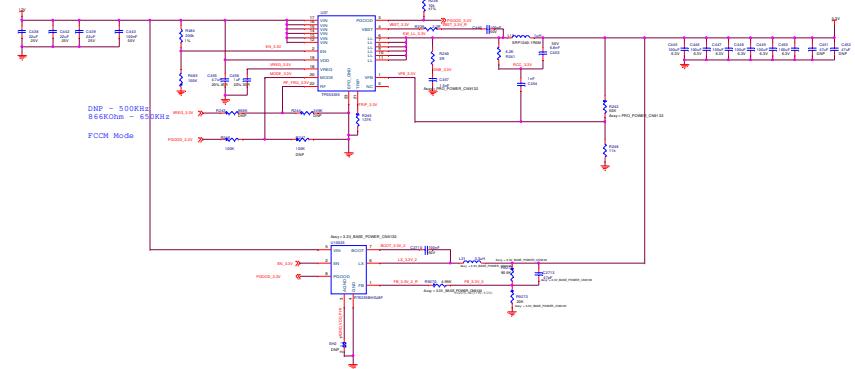




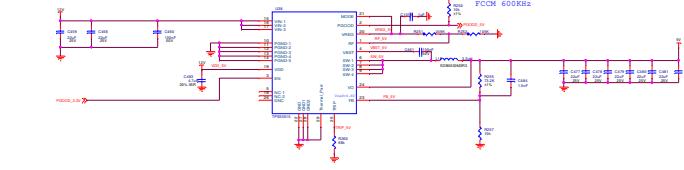
DC JACK



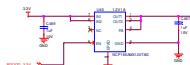
3.3'



5



1.2V



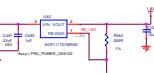
1.5V 1.15V



1.15

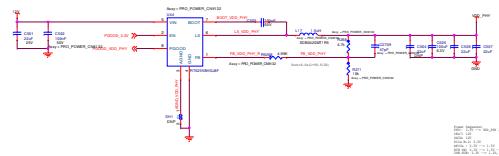


1.8V



Note: 1.2V, 1.5V, 1.15V, 1.8V, 5V, VDD_PHY can be removed in BASE configuration

PHY_DVDD 0.88V / 0.8V



PWR OK



CB_RESET / PERST

