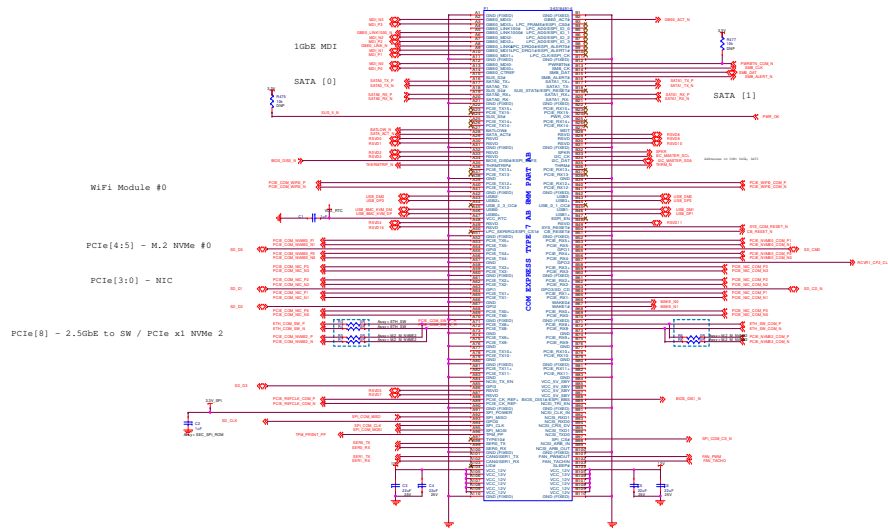
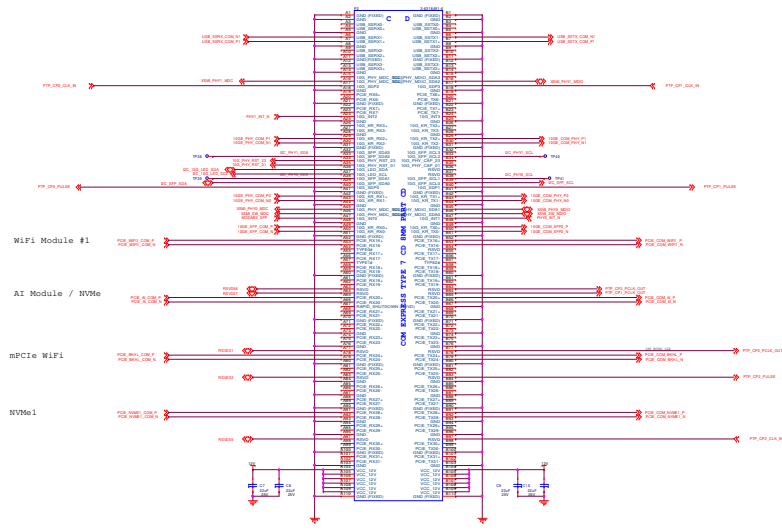


## COM-EX Type7 Conn A/B

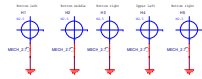


## COM-EX Type7 Conn C/D

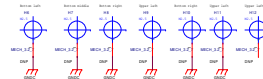
COM Express type 7 C/D



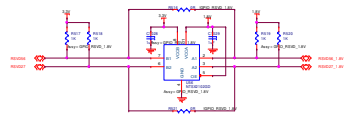
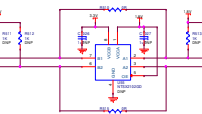
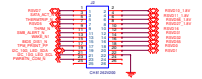
### COM Spacers



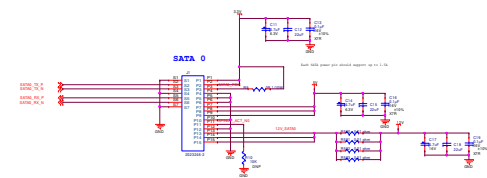
### Mechanical Holes



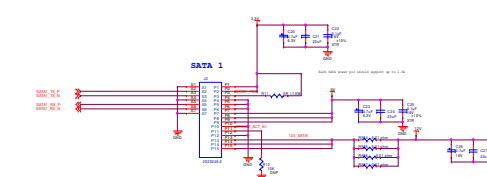
### GPIO Header



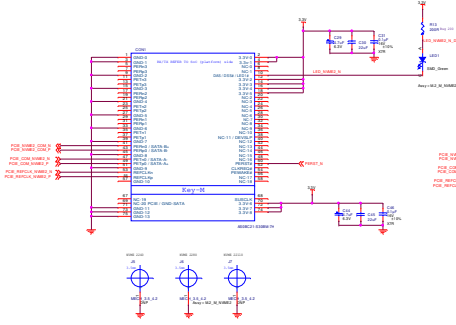
### SATA #0



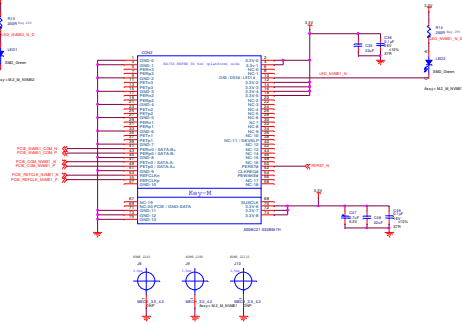
### SATA #1



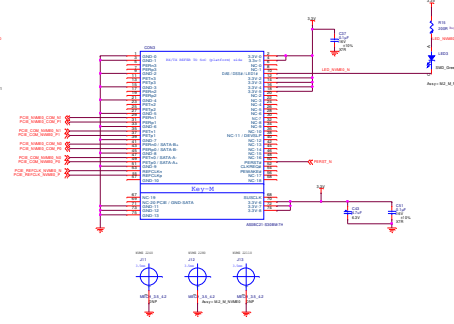
**NVMe #2  
M.2 Key-M  
PCIe X1 Gen3**



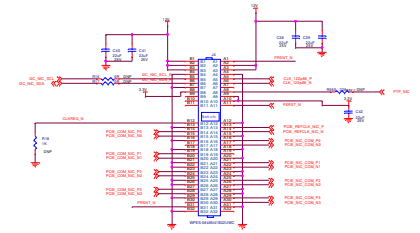
**NVMe #1  
M.2 Key-M  
PCIe X1 Gen3**



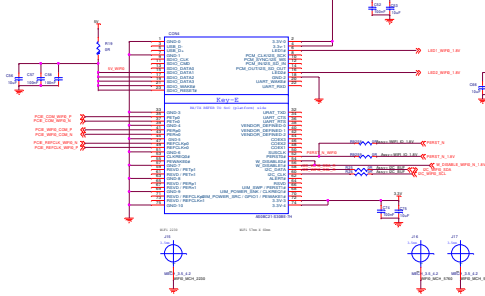
**NVMe #0  
M.2 Key-M  
PCIe X2 Gen3**



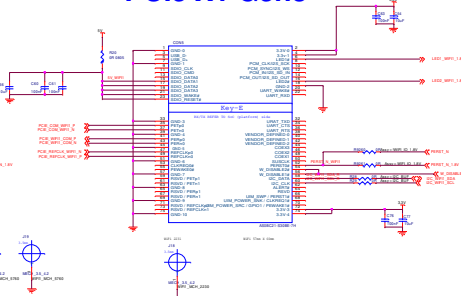
**PCIe Edge Connector  
X4 Open Slot  
PCIe X4 Gen3**



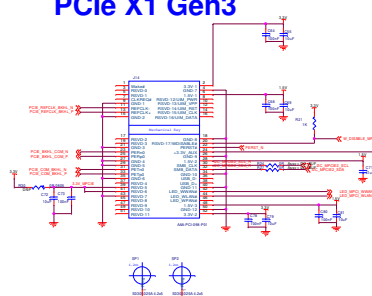
**Wi-Fi 2.4GHz 802.11ax  
M.2 Key-E  
PCIe X1 Gen3**



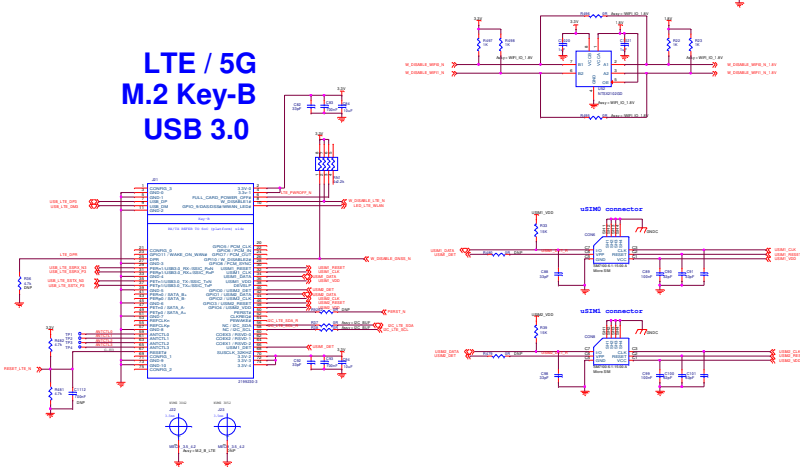
**Wi-Fi 5GHz 802.11ax  
M.2 Key-E  
PCIe X1 Gen3**



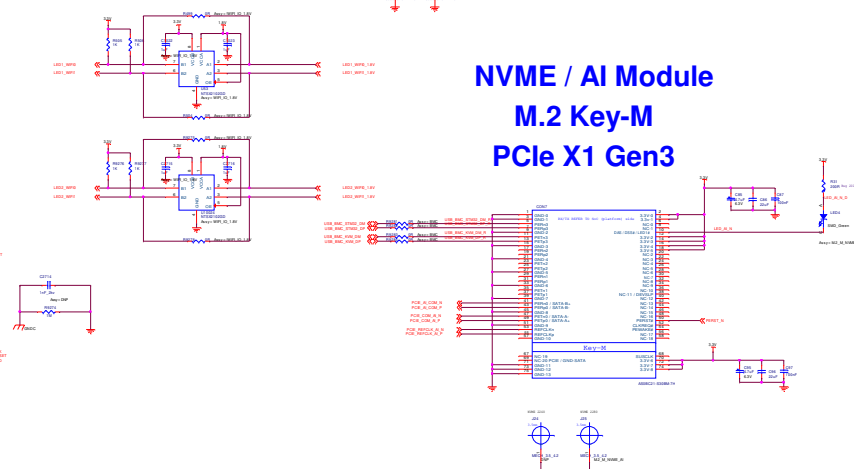
**BackHaul 802.11ac wave2  
mPCIe  
PCIe X1 Gen3**



**LTE / 5G  
M.2 Key-B  
USB 3.0**



**NVMe / AI Module  
M.2 Key-M  
PCIe X1 Gen3**

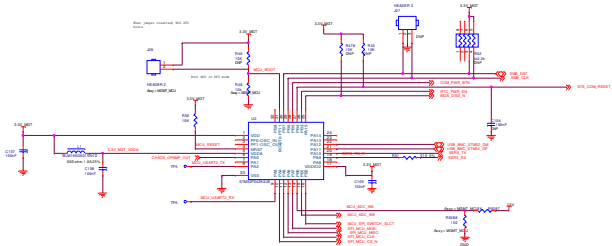
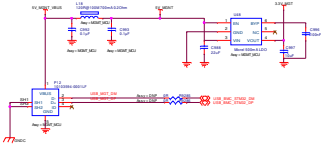


# Manegment

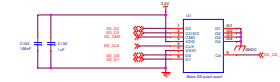
(Assy = MGMT)

Management block connected to multinode BMC -

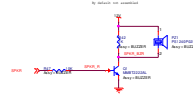
1. VBus powered (via 3.3v LDO)
2. USART2 pins PA2 (MCU TX) and PA3 (MCU RX) connected to application processor. Do not use USART1/2 on pins 14,15,8,9 since they are used for DFU mode.
3. USB DFU on pins PA11,PA12
4. I2C1 on PB6 (SCL) /PB7 (SDA)
5. SPI1 CLK/MISO/MOSI on PA5/PA6/PA7
6. PB0 / PB1 analog in (first 48v and second amplified current shunt voltage drop)



# micro SD connector (bootable)

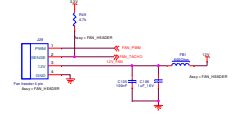


# Single Tone Buzzer



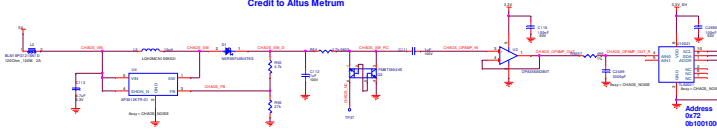
# FAN

(Assy = FAN\_HEADER)



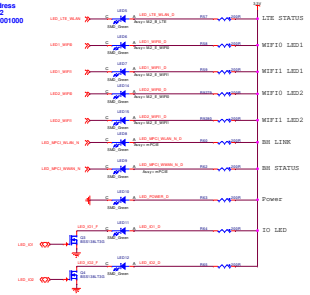
# Noise generator ChaosKey

Credit to Altus Metrum



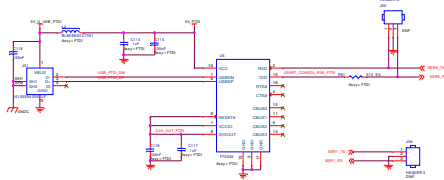
# Status LEDs

(Assy = STATUS\_LEDS)



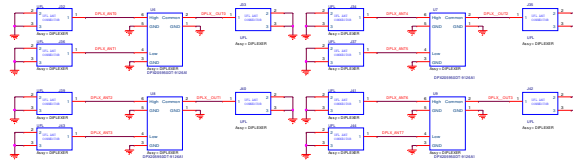
# Onboard micro USB to serial console

(Assy = FTDI)



# Diplexers

(Assy = DIPLEXERS)

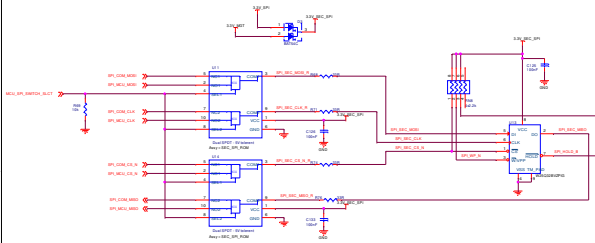


# Reroute & RESET Buttons

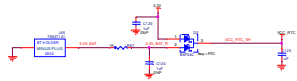


# Secondary (FailSafe) Flash

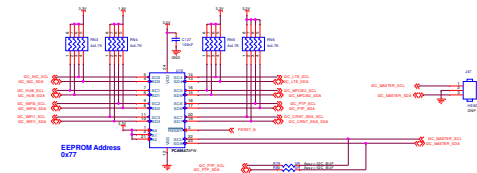
(Assy = SEC\_SPI\_ROM)



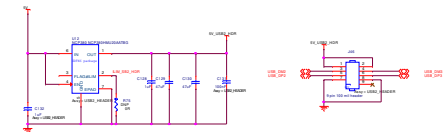
# RTC Battery



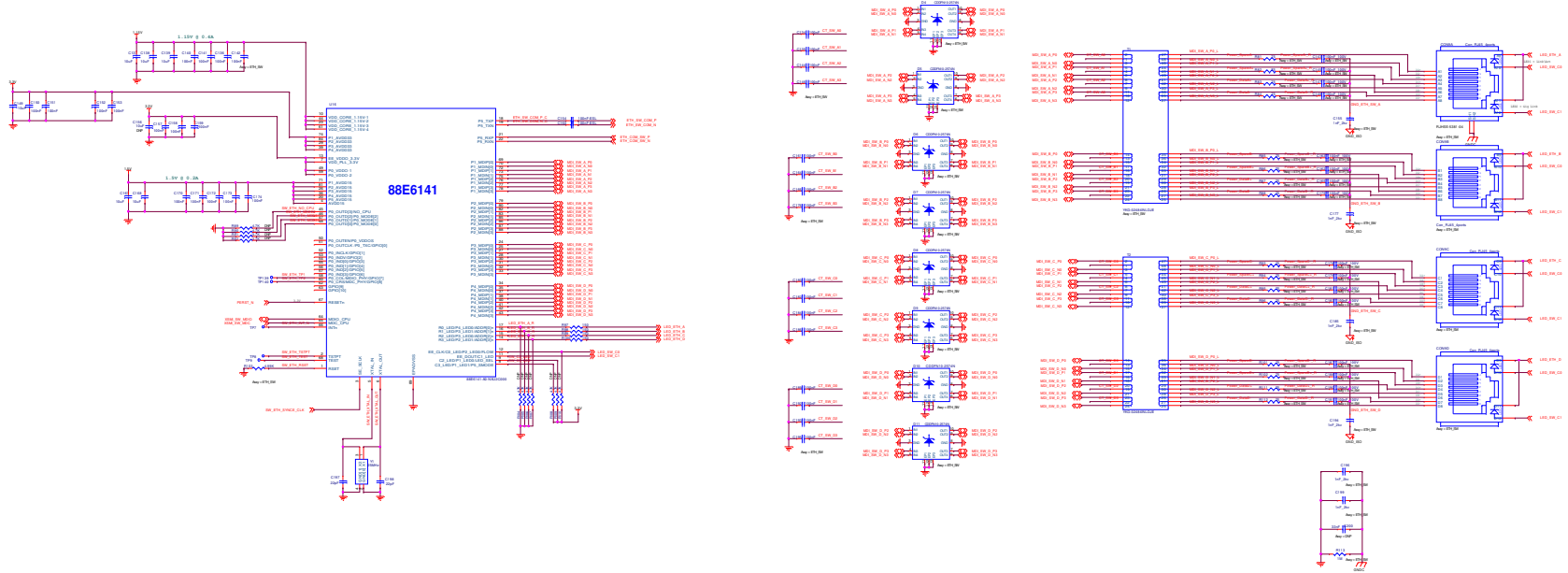
# I2C buffer



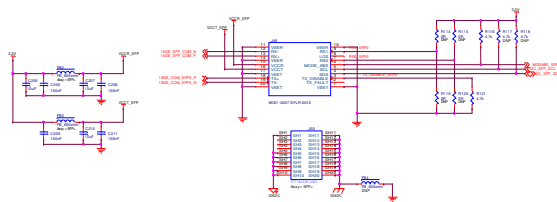
# USB 2.0 Header



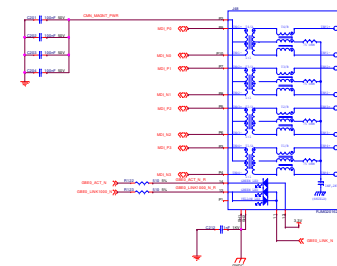
## 4x 1GbE SW (Assy = ETH\_SW)



## 10GbE SFP+ (Assy = SFP+)



## RJ45 1GbE (Assy = RJ45\_MDI)

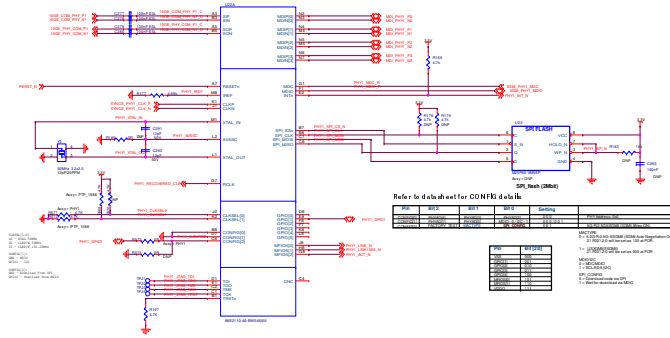




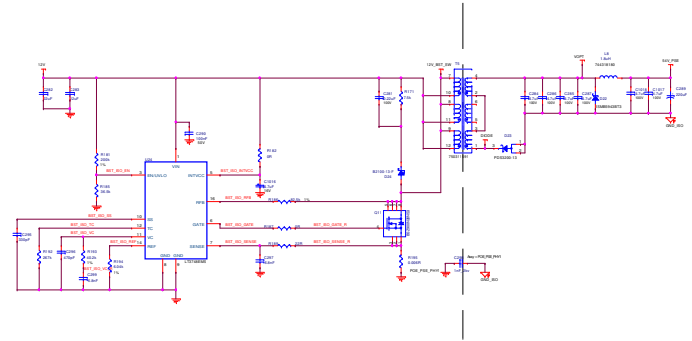


# 88E2110 5GbE PHY1

(Assy = PHY1)

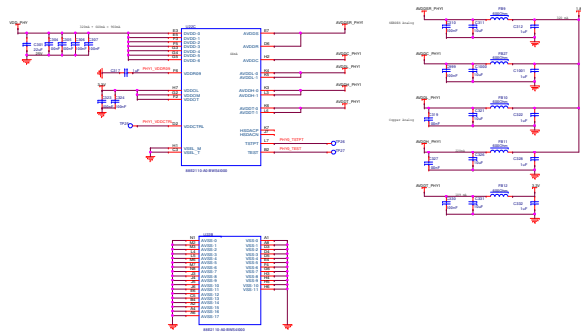
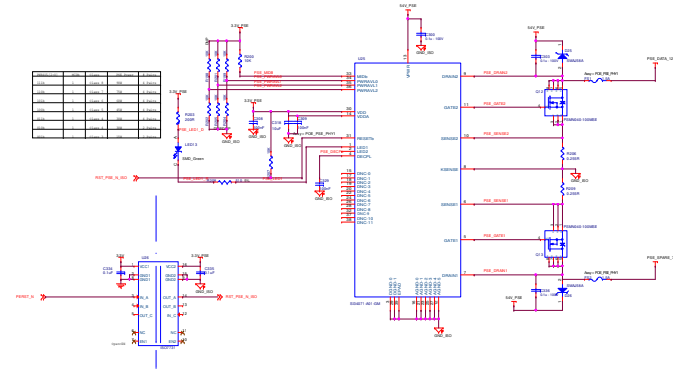


# boost 12V to 54V@0.7A



# PSE Controller

POE\_PSE\_PHY1



# 5GbE RJ45 Port PSE

(Assy = PHY1)

