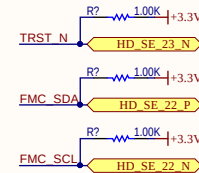
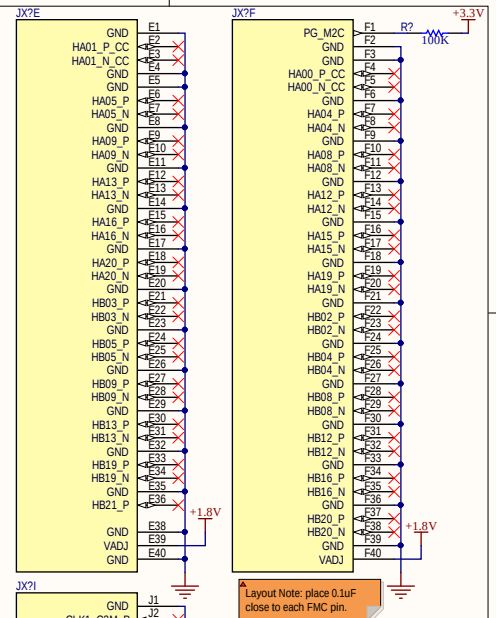
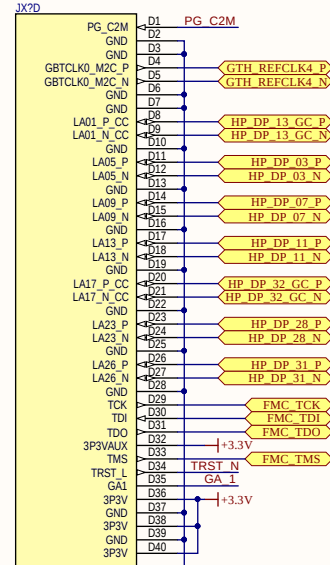
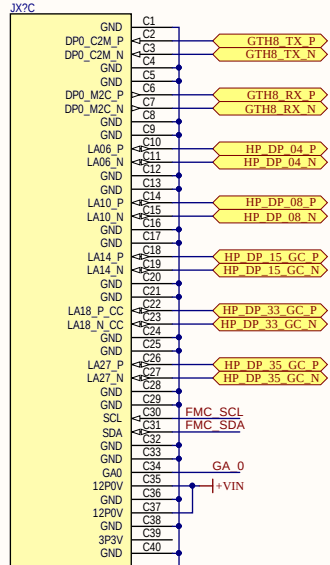
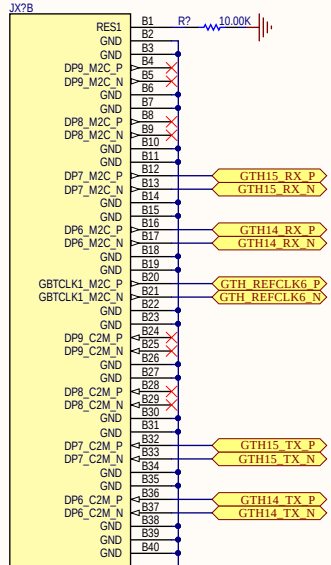
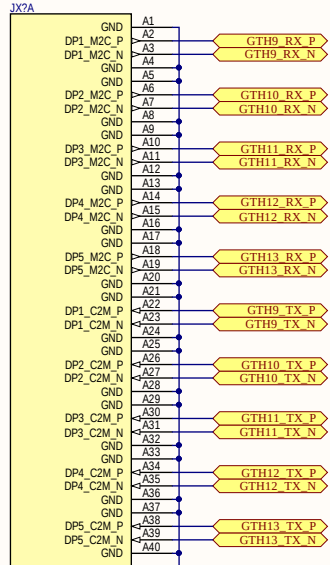
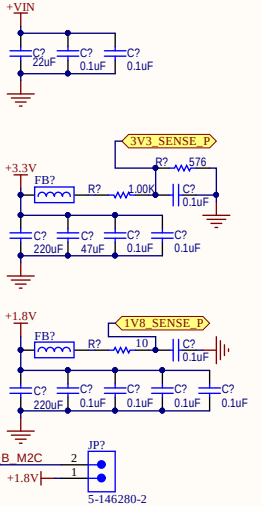


FMC HPC INTERFACE

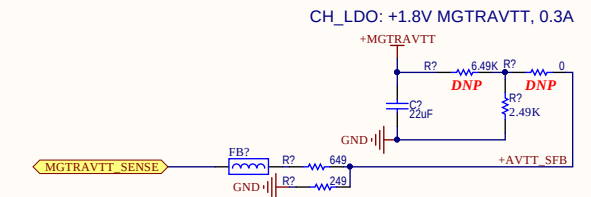
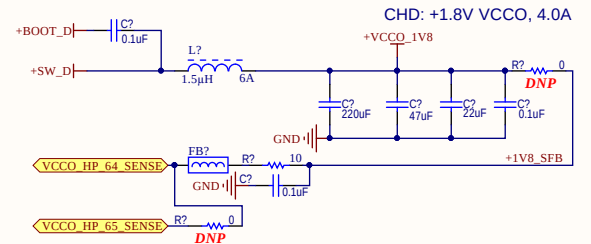
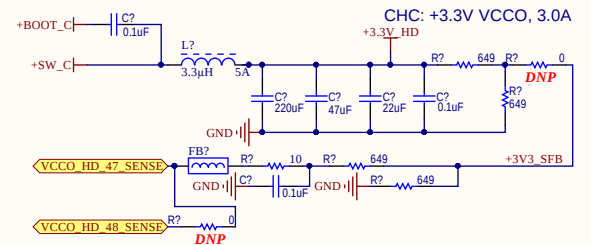
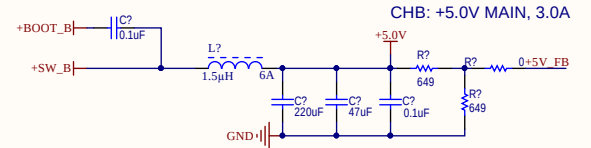
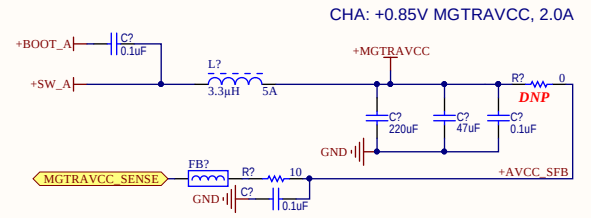
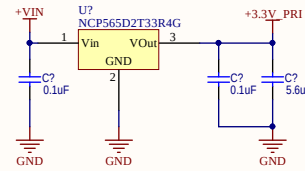
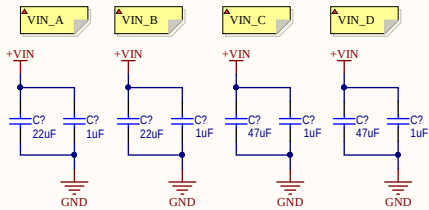


FMC DECOUPLING



POWER 2

+3.3V PRIMARY REG



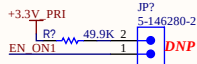
AVNET Avnet Engineering Services			
Project Name:	UltraZed-EV Carrier Card	PCB Rev:	BOM: 01 00
Doc Num:	SCH-US3CAR	Date:	3/23/2017
Sheet Title:	18 - POWER2.SchDoc	Time:	10:23:10 AM
		Size:	Sheet: 18 of 20

I2C Address Offset = +2, as set by R141 & R134.

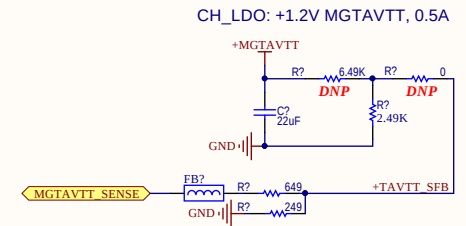
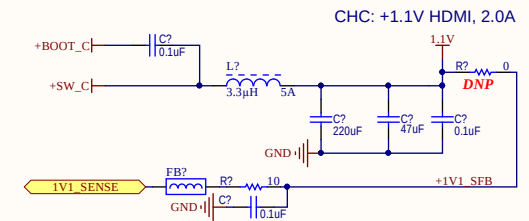
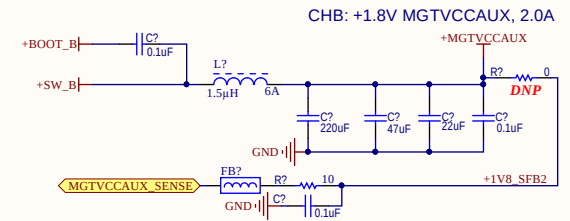
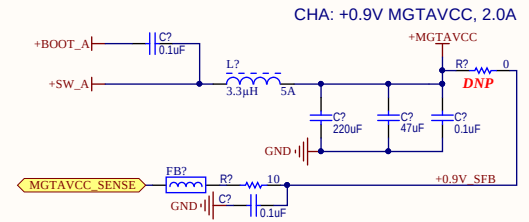
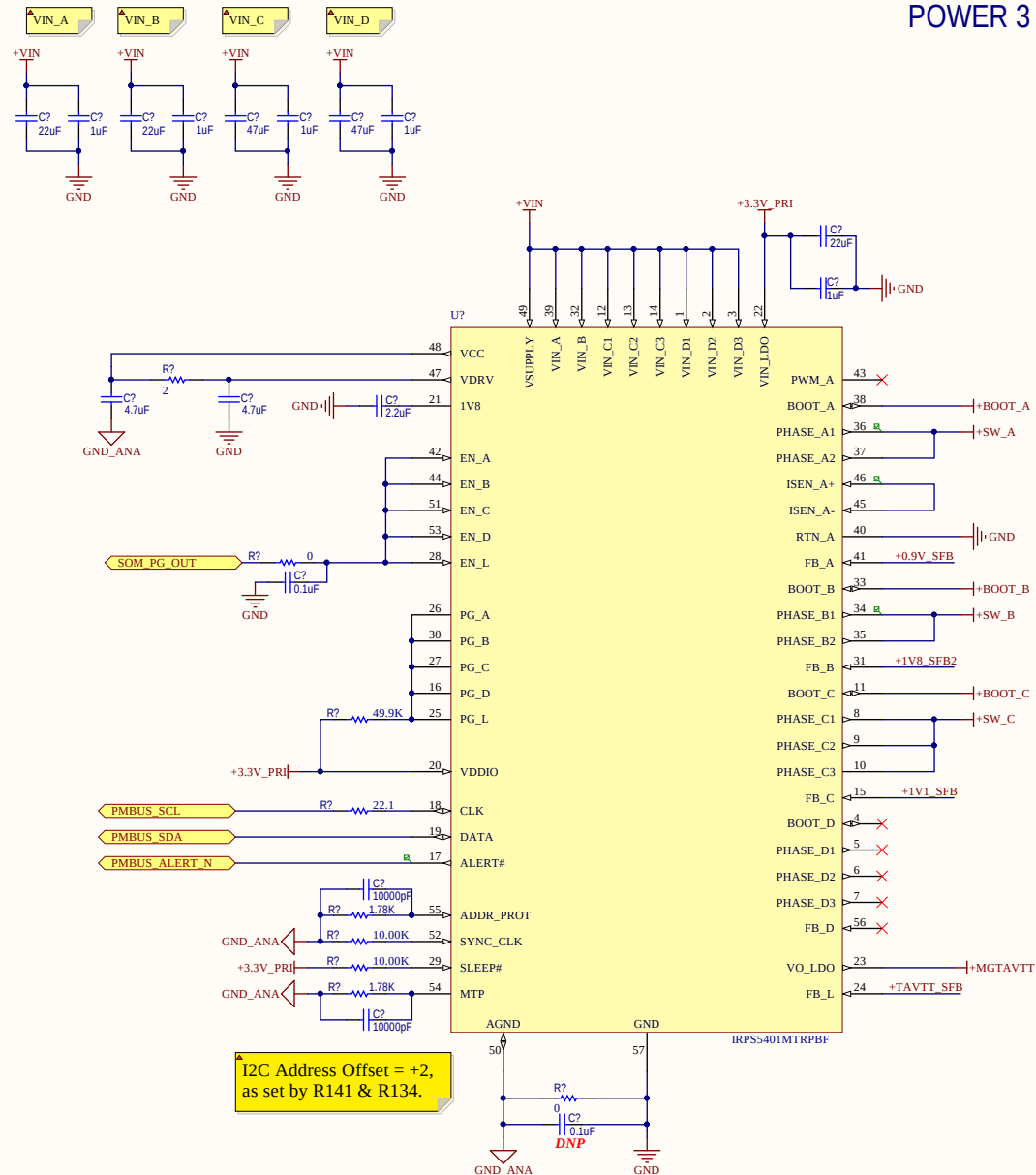
SH?



SHUNT, ECON, PHBR 15 AU, BLACK

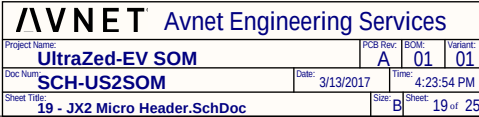


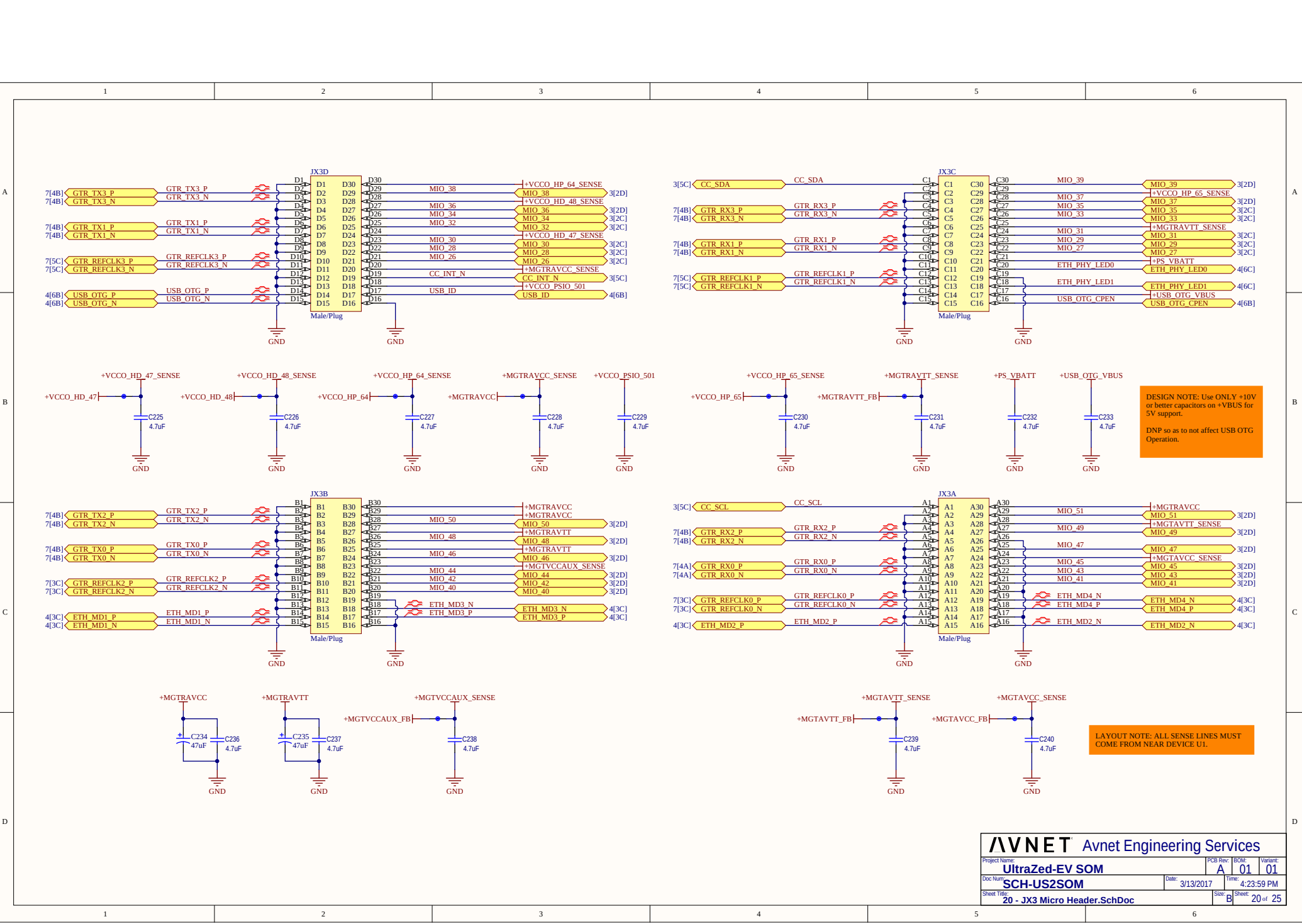
POWER 3

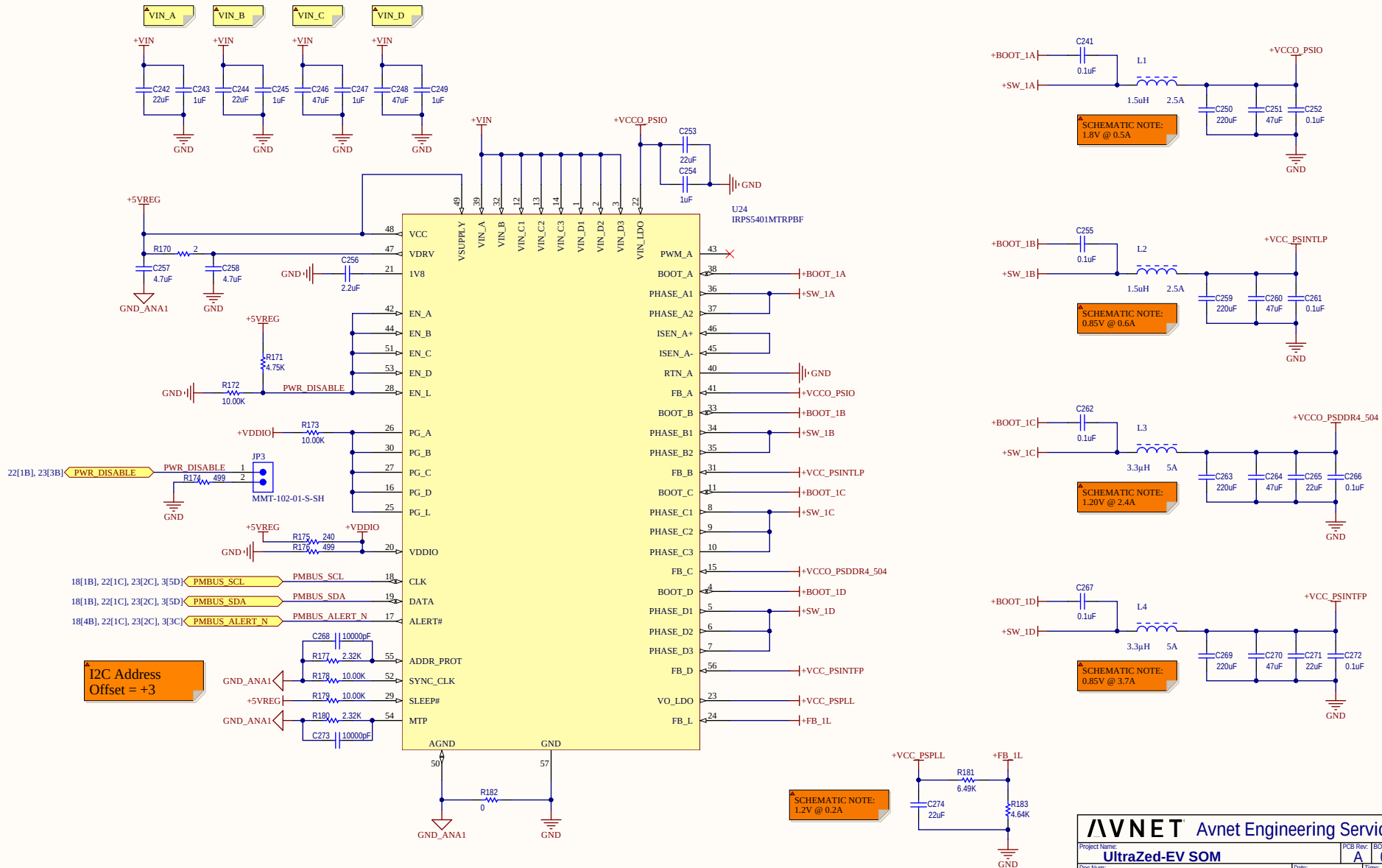




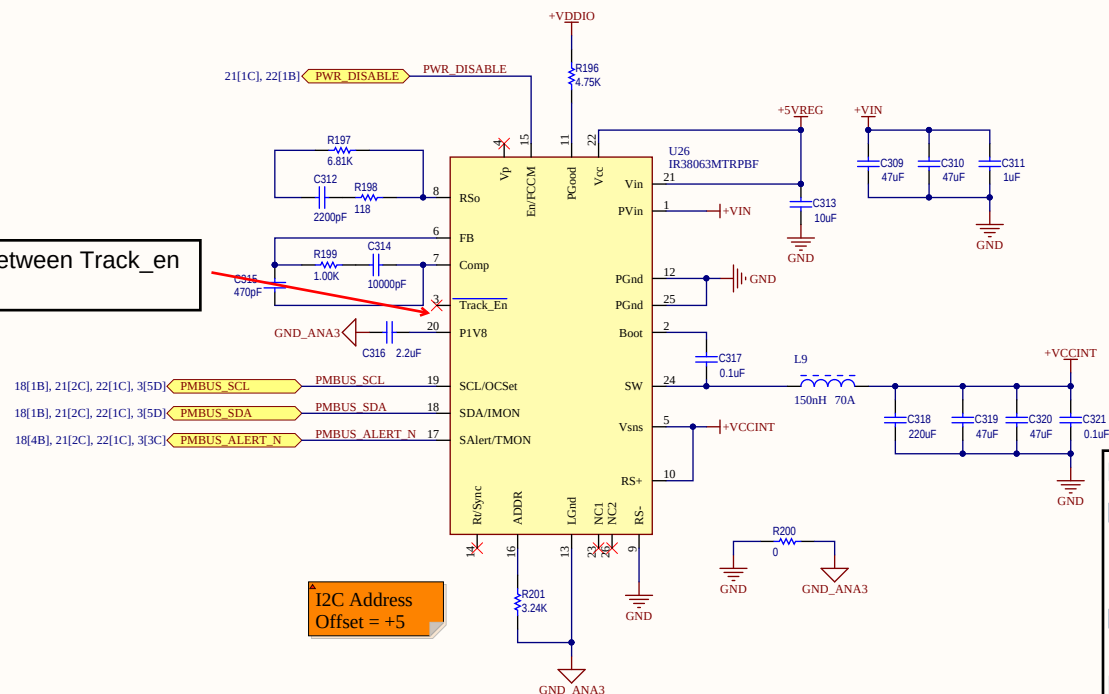
DESIGN NOTE: Use ONLY +16V or better capacitors on +VIN for 12V support.







Connect 100K between Track_en and P1V8



I2C Address
Offset = +5

Add 3 X47uF ceramic caps to this design. This is so that we can meet transient requirements when the carrier card capacitance is available, while preventing the bandwidth from becoming too high when the carrier card is not mounted. Then,
R197=4.87K
C312=2200pF
R198=86.6ohm
C314=10 nF
C315=220pF
R199=1.87K

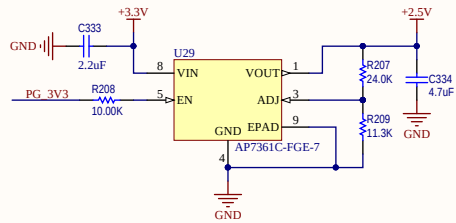
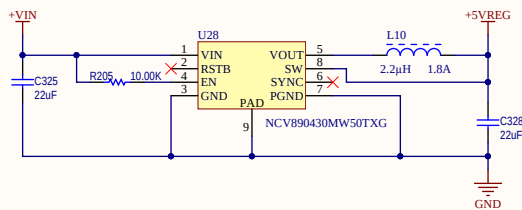
PVin=12V, with load side caps,
predicted BW= 78 kHz

PVin=5V, with load side caps,
predicted BW= 68 kHz

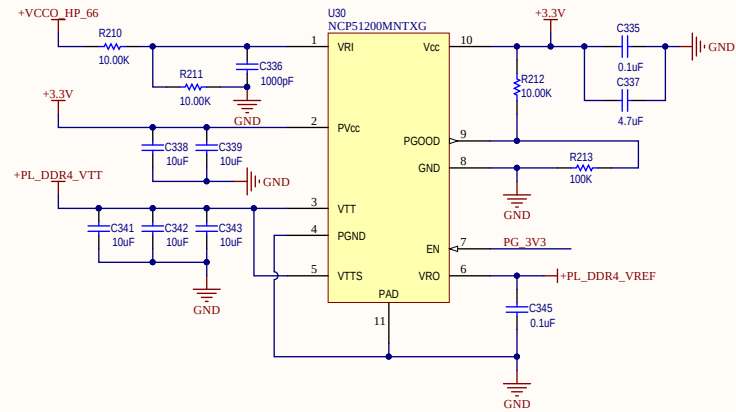
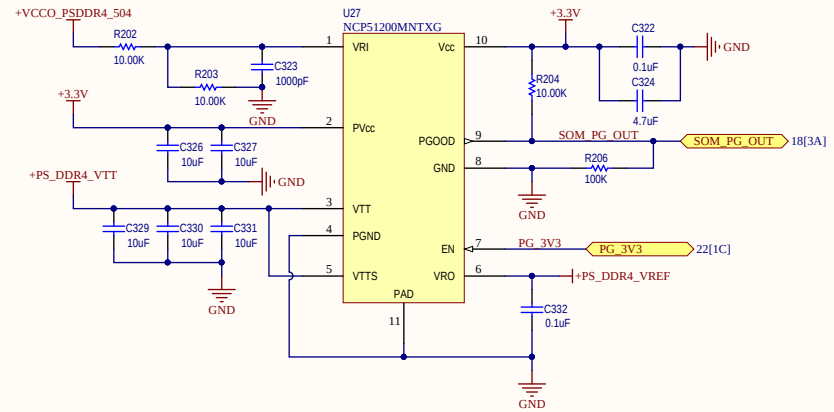
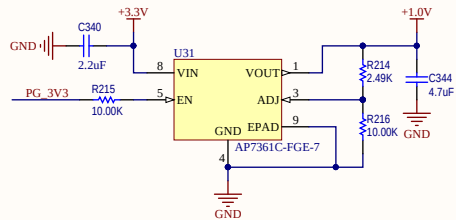
PVin=12V, without load side
caps, predicted BW= 100 kHz

PVin=5V, without load side
caps, predicted BW= 90 kHz

AVNET Avnet Engineering Services			
Project Name:	UltraZed-EV SOM	PCB Rev:	A
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DESIGN NOTE: $V_{OUT} = ((R1/R2) + 1) * 0.8$



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		Size:	B
		Sheet:	24 of 25