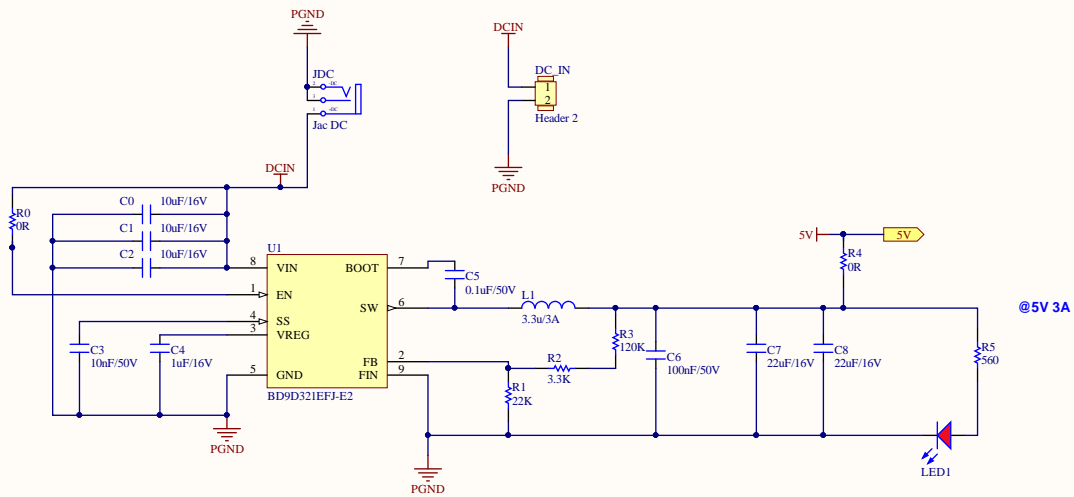
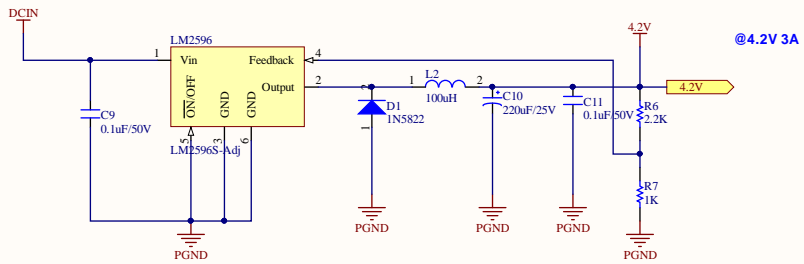


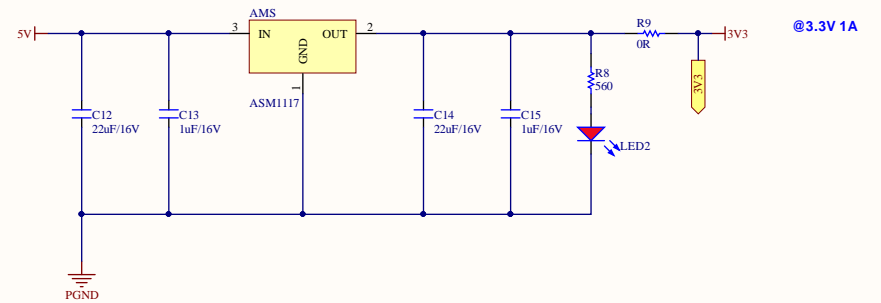
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Date: 5/12/2021	Sheet of	
File: C:\Users\... \11-Block Diagram.SchDoc	Drawn By:	



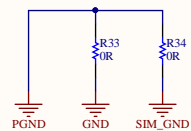
**Converter 14.1V to 5V**



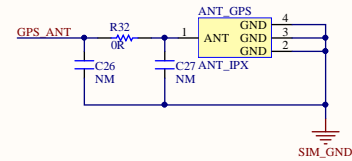
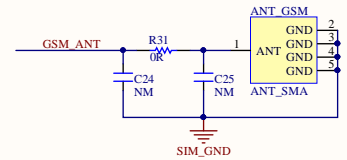
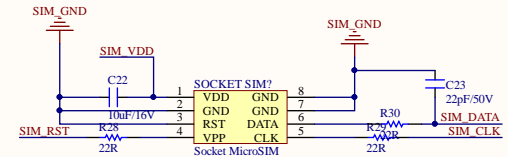
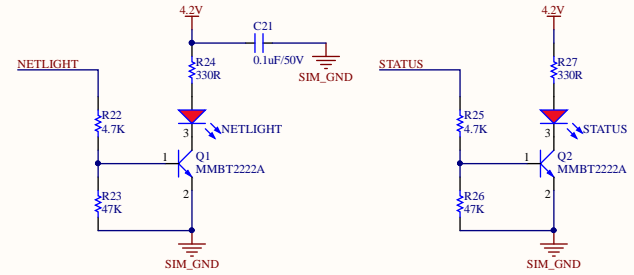
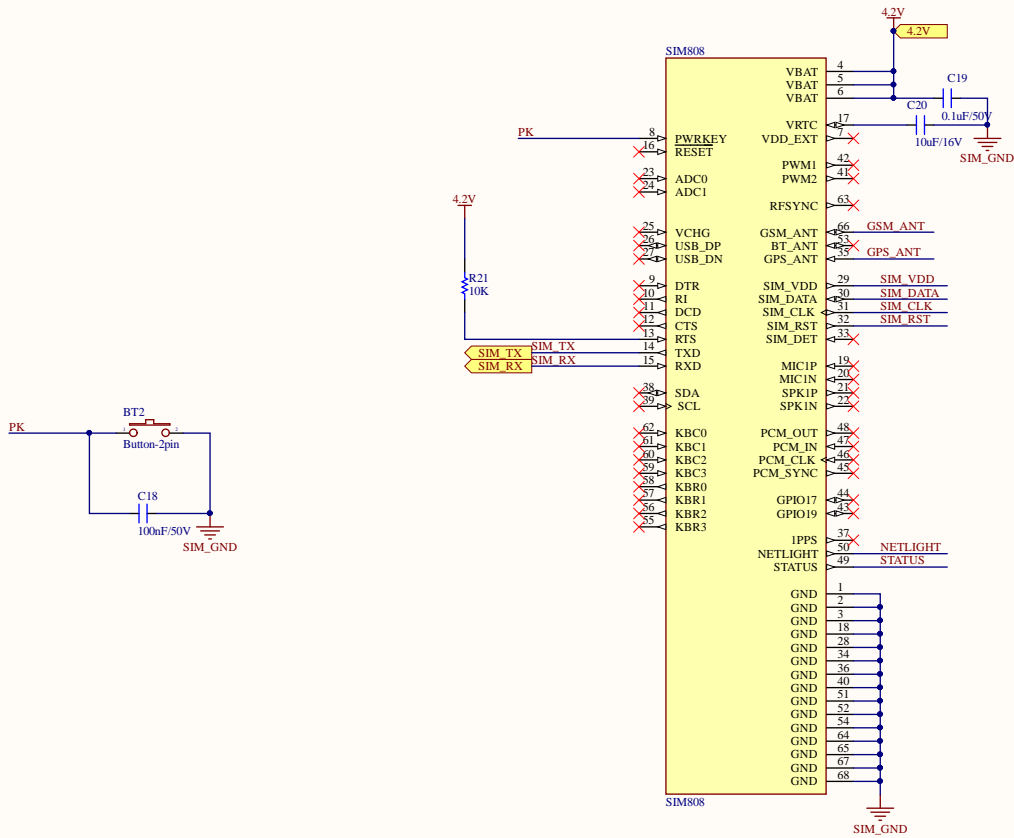
**Converter 14.1V to 4.2V**



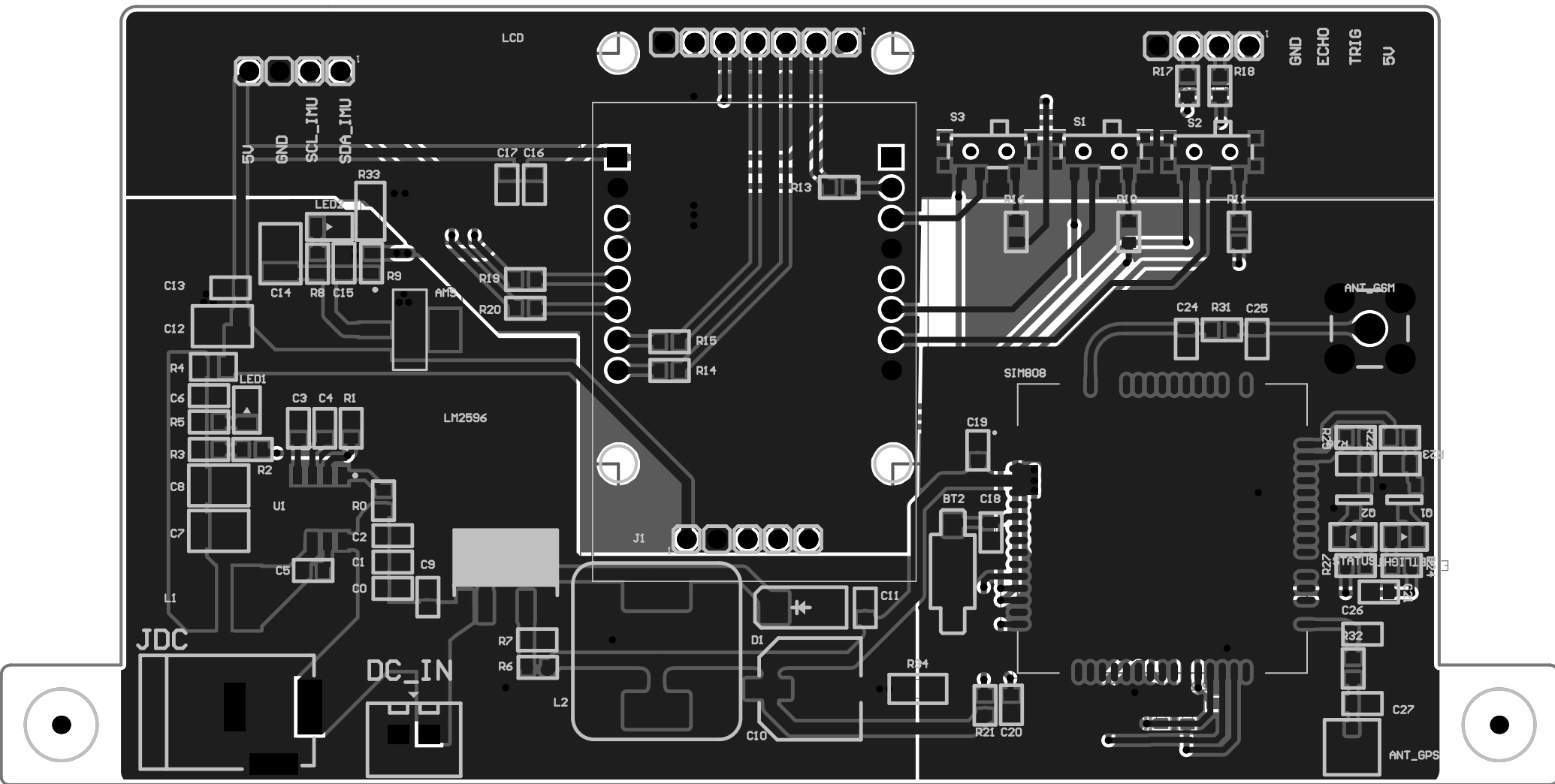
**Converter 5V to 3.3V**







Title		
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Date:	5/12/2021	Sheet of
File:	C:\Users\... \41-GPS_3G_SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
ASM1117	ASM1117 3.3V	AMS	SOT223	ASM1117	
ANT_IPX		ANT_GPS	ANT-IPX-SMD	ANT_IPX	
ANT_SMA		ANT_GSM	ANT-SMA-ST-F	ANT_SMA	
Button-2pn		BT2	BUTTON_2P_SMD	Button-2pn	
10uF/16V	Ceramic Capacitor 10	C0, C1, C2, C16, C20	CAP0603(1508)	CAP_CER_10uF_16V	
10nF/50V	Ceramic Capacitor 10	C3	CAP0603(1508)	CAP_CER_10nF_50V	
1uF/16V	Ceramic Capacitor 1u	C4, C13, C15	CAP0603(1508)	CAP_CER_1uF_16V	
0.1uF/50V	Ceramic Capacitor 1n	C5, C9, C11, C17, C1	CAP0603(1508)	CAP_CER_0.1uF_50V	
100nF/50V	Ceramic Capacitor 10	C6, C18	CAP0603(1508)	CAP_CER_100nF_50V	
22uF/16V	Ceramic Capacitor 22	C7, C8, C12, C14	CAP1210(3225)	CAP_CER_22uF_16V	
220uF/25V	Capacitor Aluminum 2	C10	CAP_ALU_SIZEE	CAP_ALU_220uF_25V	
22pF/50V	Ceramic Capacitor 22	C23	CAP0603(1508)	CAP_CER_22pF_50V	
NM	Ceramic Capacitor 1n	C24, C25, C26, C27	CAP0603(1508)	CAP_CER_0.1uF_50V	
1N5822	1N5822	D1	1N5822 SS34A	1N5822_2	
Header 2		DC_IN	HEADER x2 (2)	Header 2	
ESP32_CAM		ESP32_CAM	ESP32-CAM	ESP32_CAM	
Header 4		HC-SR04,MPU6050	HEADER x4	Header 4	
Nap code		J1	HEADER x5	Header 5	
Jac DC	Jac DC input	JDC	DC socket	DCIN	
3.3u/3A		L1	NRS5040T3R3NMGJ	L_HCC	
100uH		L2	Inductor SMD 12x12x	Inductor	
Header 7		LCD	HEADER x7	Header 7	
LED_RED	LED Red	LED1, LED2, NETLIGHT	LED0805RED	LED_RED	
LM2596S-Adj	IC LM2596S buck 3A	LM2596	LM2596S TO263-5	LM2596S-Adj	
MMBT2222A		Q1, Q2	MMBT2222A	MMBT2222A	
OR	Resistor 0603	R0, R9, R10, R11, R1	RES0603(1608)	Resistor 0603	
22K	Resistor 0603	R1	RES0603(1608)	Resistor 0603	
3.3K	Resistor 0603	R2	RES0603(1608)	Resistor 0603	
120K	Resistor 0603	R3	RES0603(1608)	Resistor 0603	
OR	Resistor 0805	R4	Res0805(2012)	Resistor 0805	
560	Resistor 0603	R5, R8	RES0603(1608)	Resistor 0603	
2.2K	Resistor 0603	R6	RES0603(1608)	Resistor 0603	
1K	Resistor 0603	R7	RES0603(1608)	Resistor 0603	
10K	Resistor 0603	R21	RES0603(1608)	Resistor 0603	
4.7K	Resistor 0603	R22, R25	RES0603(1608)	Resistor 0603	
47K	Resistor 0603	R23, R26	RES0603(1608)	Resistor 0603	
330R	Resistor 0603	R24, R27	RES0603(1608)	Resistor 0603	
22R	Resistor 0603	R28, R29, R30	RES0603(1608)	Resistor 0603	
OR	Resistor 1206	R32, R34	RES1206(2314)	Resistor 1206	