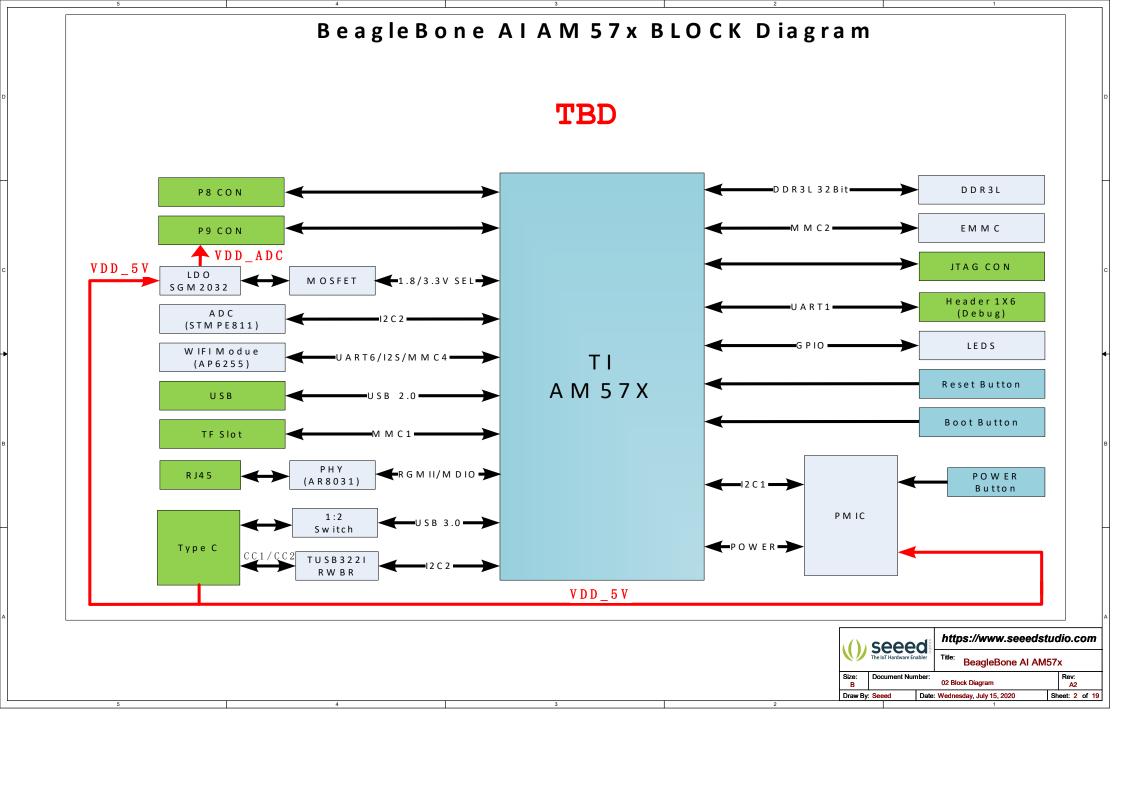
Schematic: BeagleBone AI

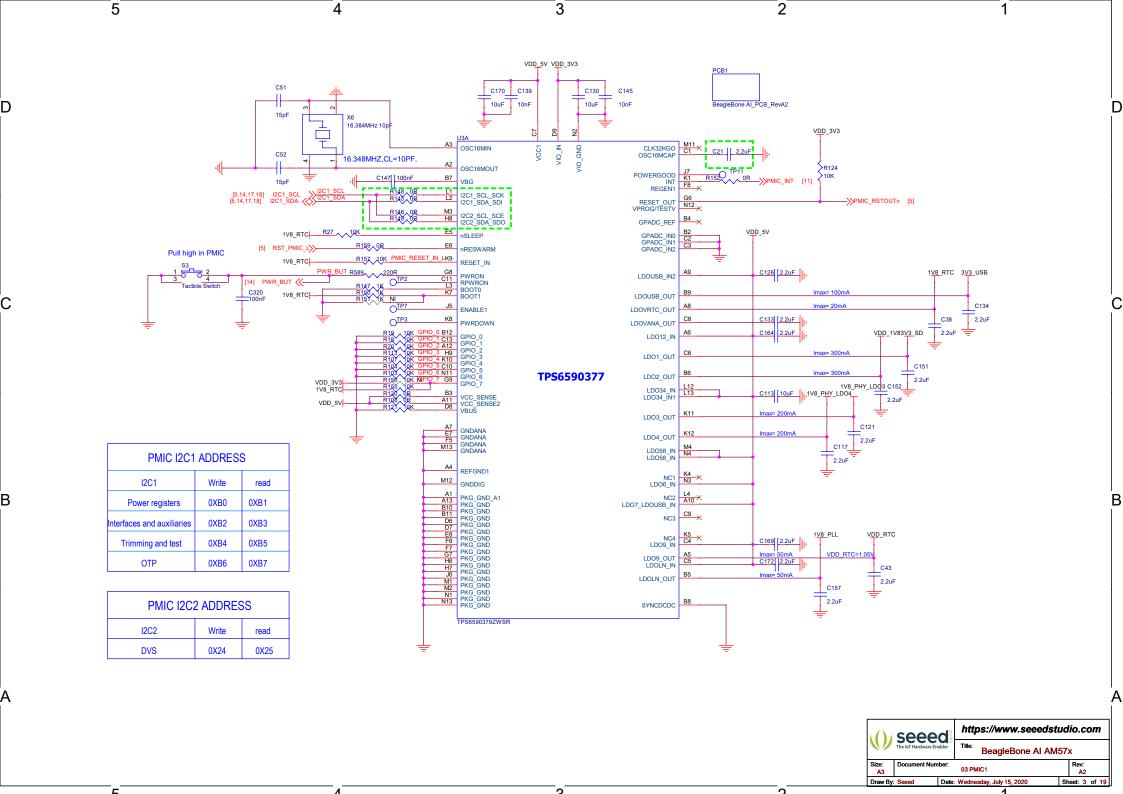
Sheet	Sheet Name
01	Index Page
02	Block Diagram
03	PMIC1
04	PMIC2
05	AM57x SYSTEM
06	DDR PART1
07	DDR PART2
08	DDR VTT/LEDs
09	MMC/UBOOT
10	AM57x Interface 1
11	AM57x Interface 2
12	Processor Power
13	Processor Power Decoupling
14	Exp Conn
15	WIFI
16	Gigabit Ethernet
17	USB Type C
18	ADC/TF/Debug
19	HDMI

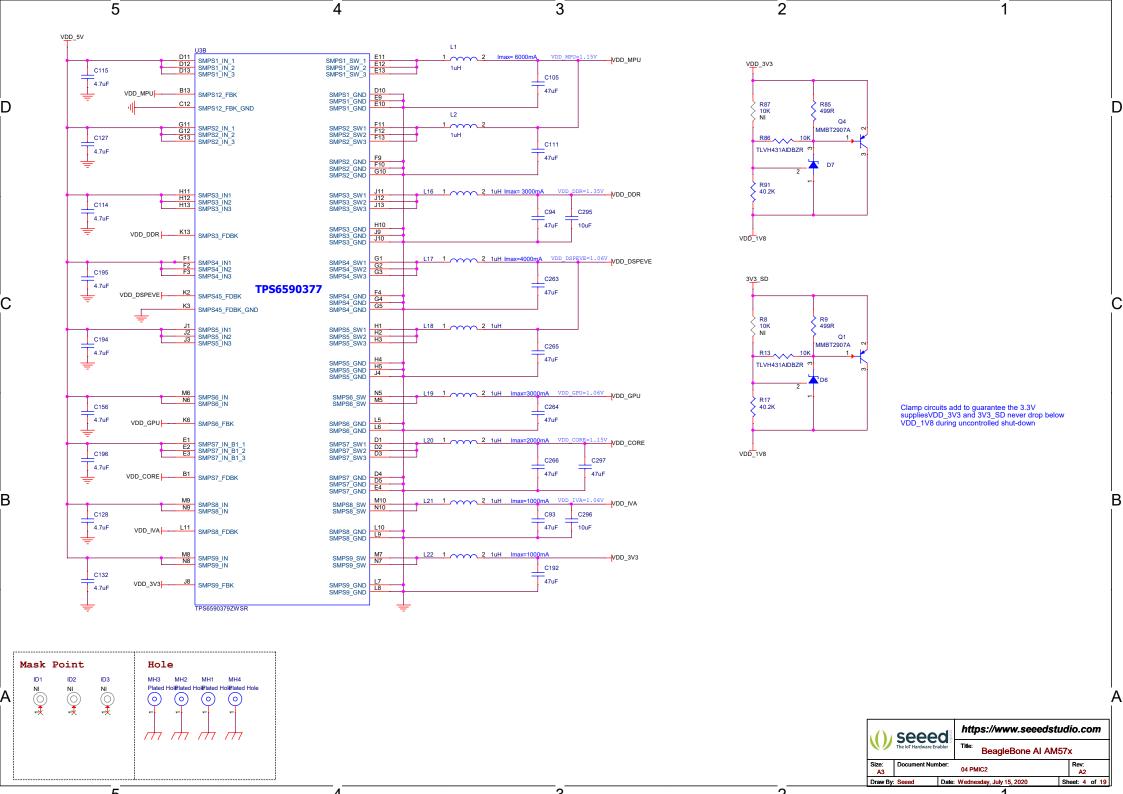
Revision History

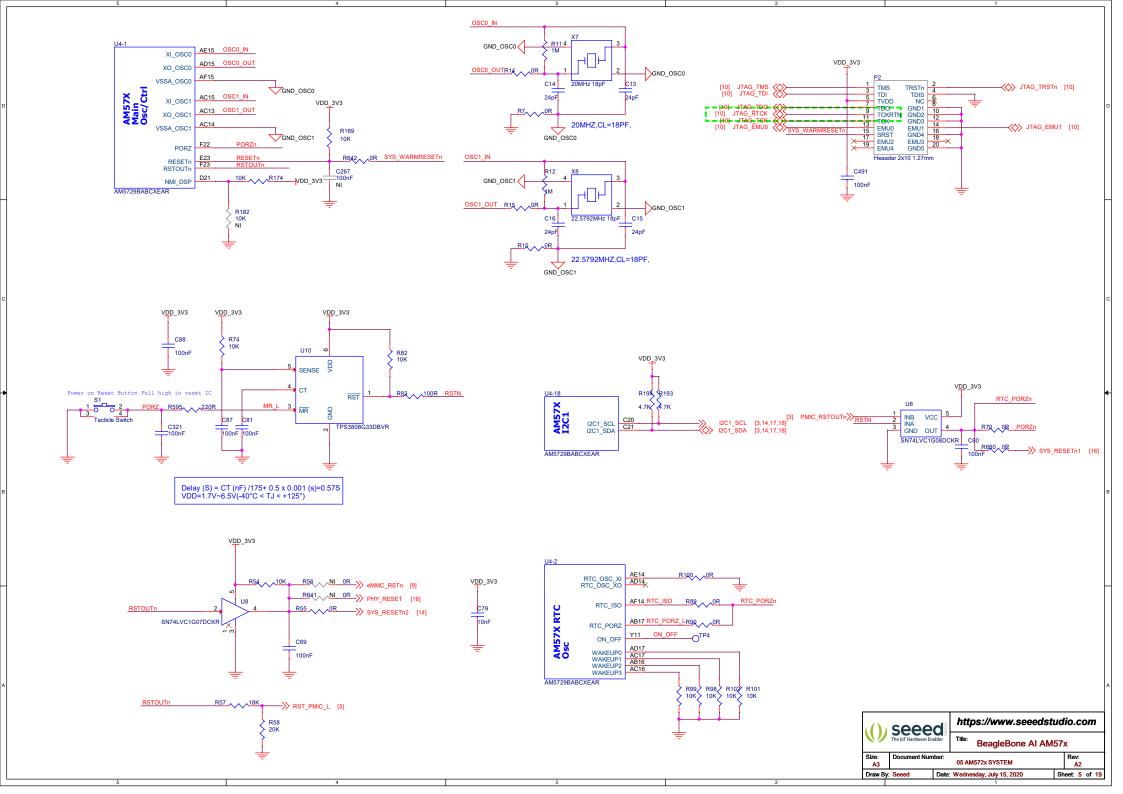
REV	Description	DATE	BY
A1	Initial Release	12/24/2018	Embest
A2	 Changed schematic and PCB revision to A2. Page 3: Added C21=2.2uF to U3 Pin C1. Page 5: Deleted the net alias name JTAG_TCK of P2 Pin9. Page 9: Changed R175-R179,R184,R185,R186,R188 from 10K to 47K. Page 14: Added EEPROM U9 for Board ID. Added optional 0R resistor to tie CPU Pin AB10 to P9 Pin13. Added 0R resistor to tie DCAN(CPU Pin G19 G20) to P8 Pin7 Pin8. Page 17: Changed the USB Type C port controller circuit, Used U13(TI HD3SS3220) instead of U22 (TI TUSB322IRWBR) and U72 (Pericom PI3USB3102ZLE). Page 18: Added pull-down resistor R708=100K to UART1_RX, set R173=NI(100K). Used TI TLV758P instead of U40 (SG MICRO SGM2032-ADJYN5G/TR) for ADC voltage reference/supply. Page 19: Changed the HDMI companion chip, Used U15(TI TPD12S016) instead of U12 (TI TXS0104ERGYR). 	04/24/2020	Seeed
A 2	 Page 14: Deleted D82 B360A-13-F. Page 17: Changed the power MUX circuit, Used U12(TI TPS2121) instead of Q15 D81 D82 Q19. Page 19: Deleted Q19 and net H5V, tied FB7 to VDD_5V instead of H5V. 	04/30/2020	Seeed
A2	1. Page 16: Changed Ethernet PHY from ATHEROS AR8035-AL1B to TI DP83867CRRGZ.	05/12/2020	Seeed
A 2	 Page 10: Changed R134 from 1.5K to 2.2K. Page 16: Changed R475 from 10K to 2.2K; Removed R138, as "JTAG pins can be left unconnected if not used" from TI's suggestion Page 16: Added some FBs and CAPs for Three-Supply Mode, but set them to NI, just reserved. 	05/15/2020	Seeed
A2	1. Page 3: Fixed the wiring issue with the I2C2 on the PMIC.	05/18/2020	Seeed
A2	 Page 16: Changed the definition of PHY_LED, keep the status like BBB. Page 17: Changed R60 from NI to OR; R35 from 4.7K to NI(200K), added R191=NI(4.7K); R52 from 10K to 200K; Set R46=OR, R47=NI(OR). Page All: Added the Seeed's BOM to SCH. 	06/08/2020	Seeed

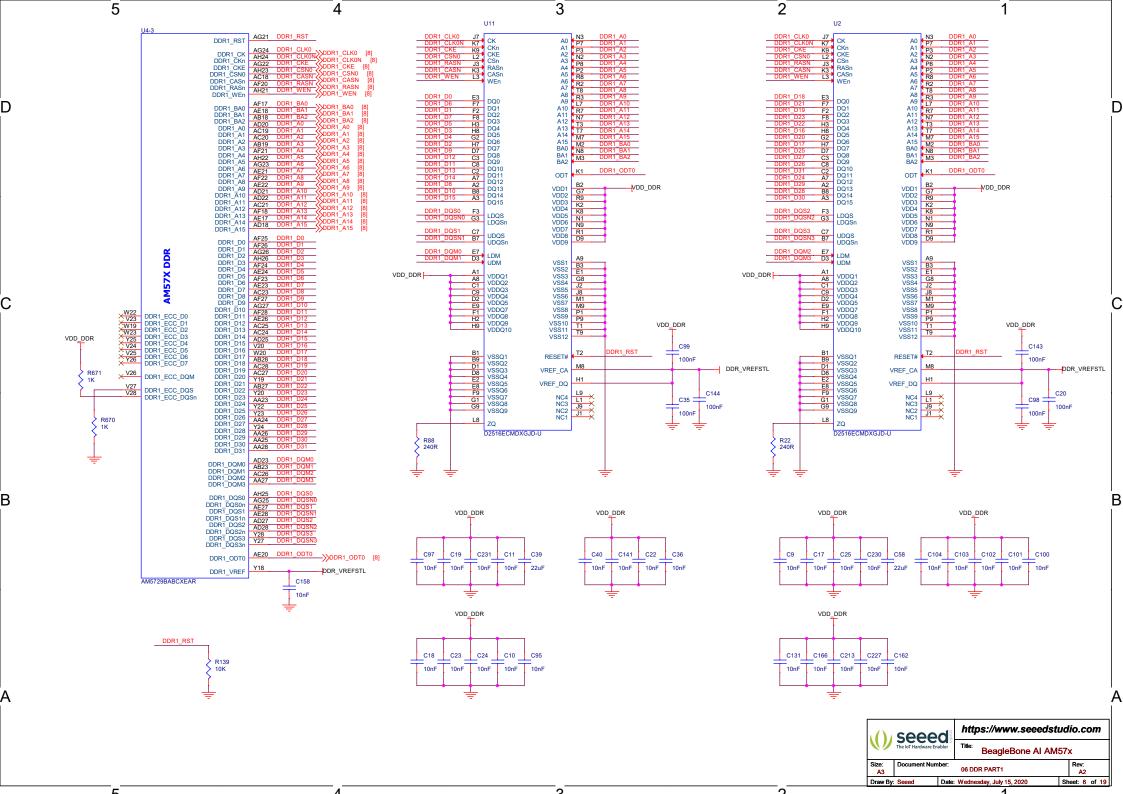


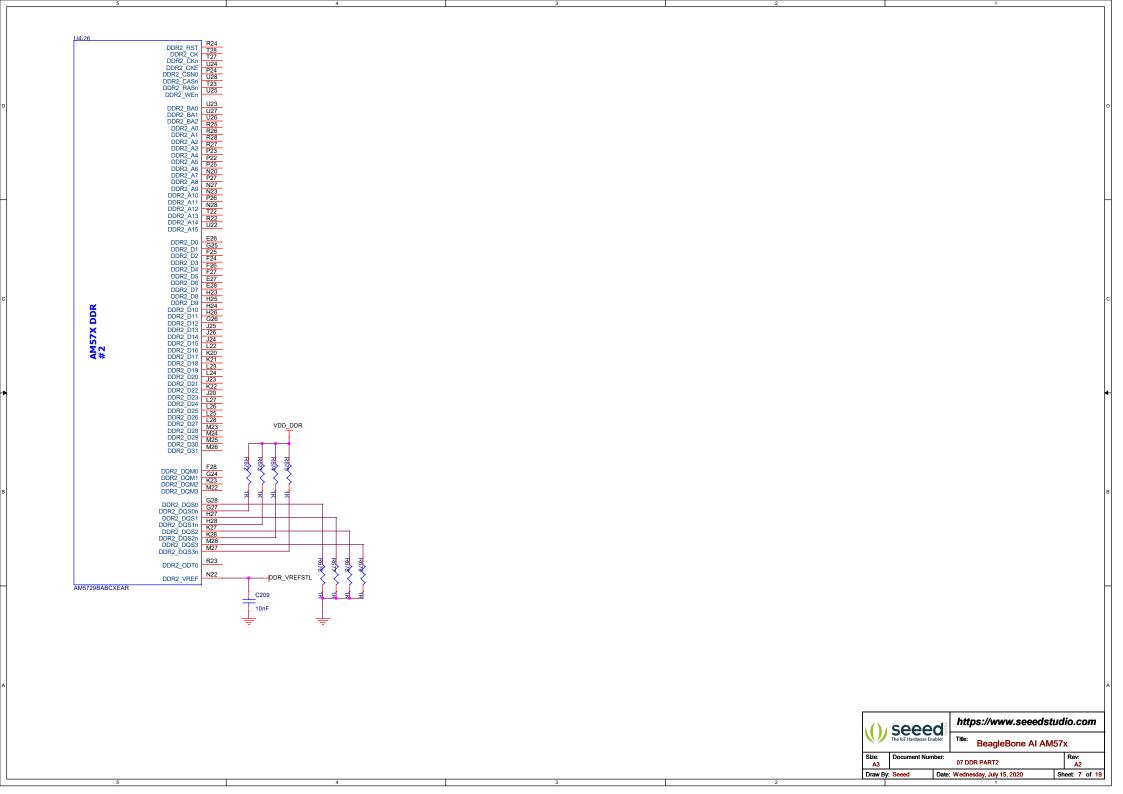






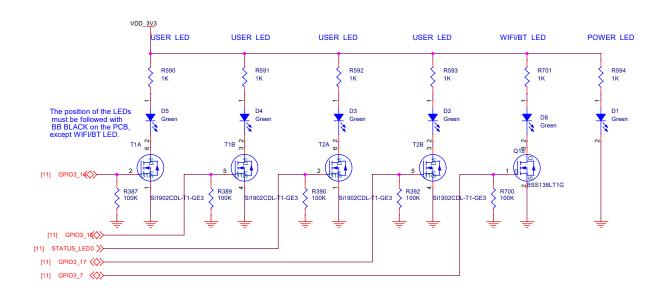


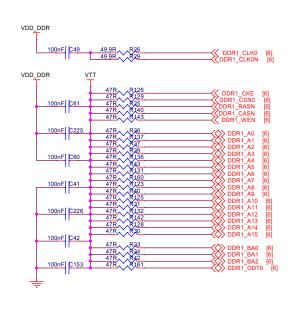




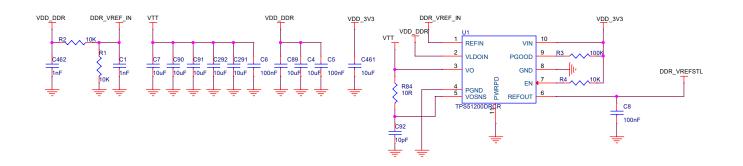
LED

VTT

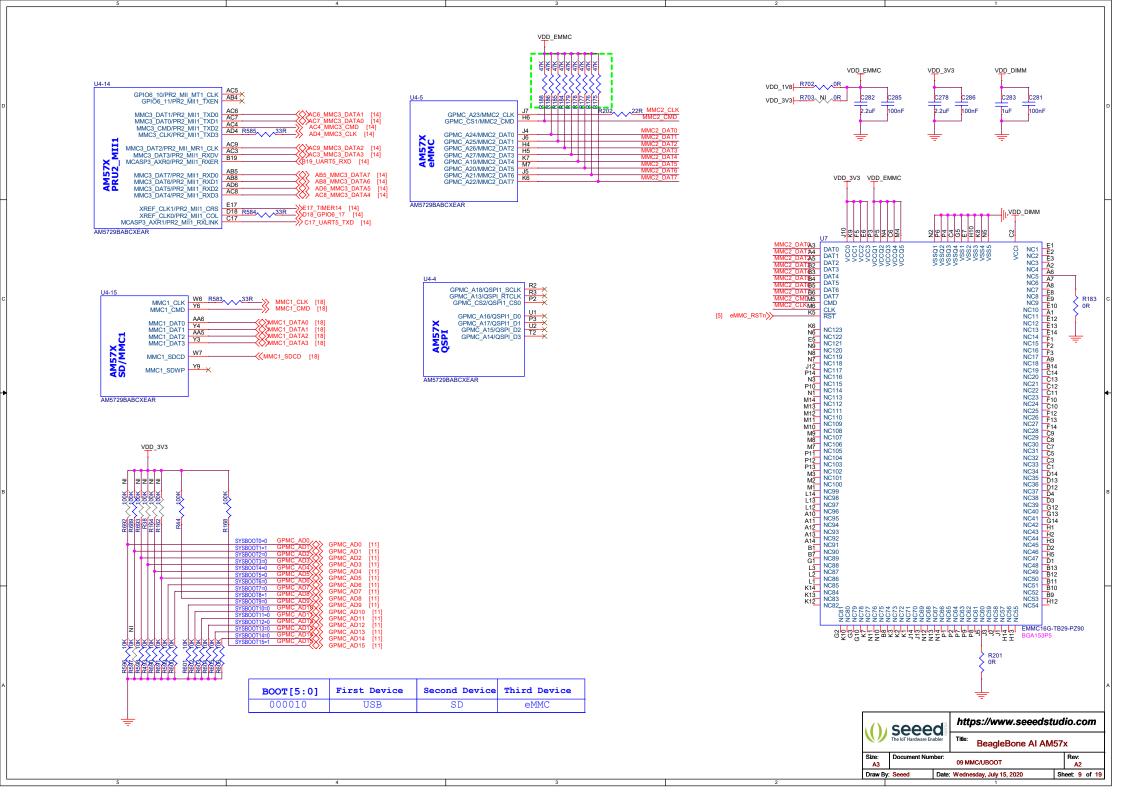


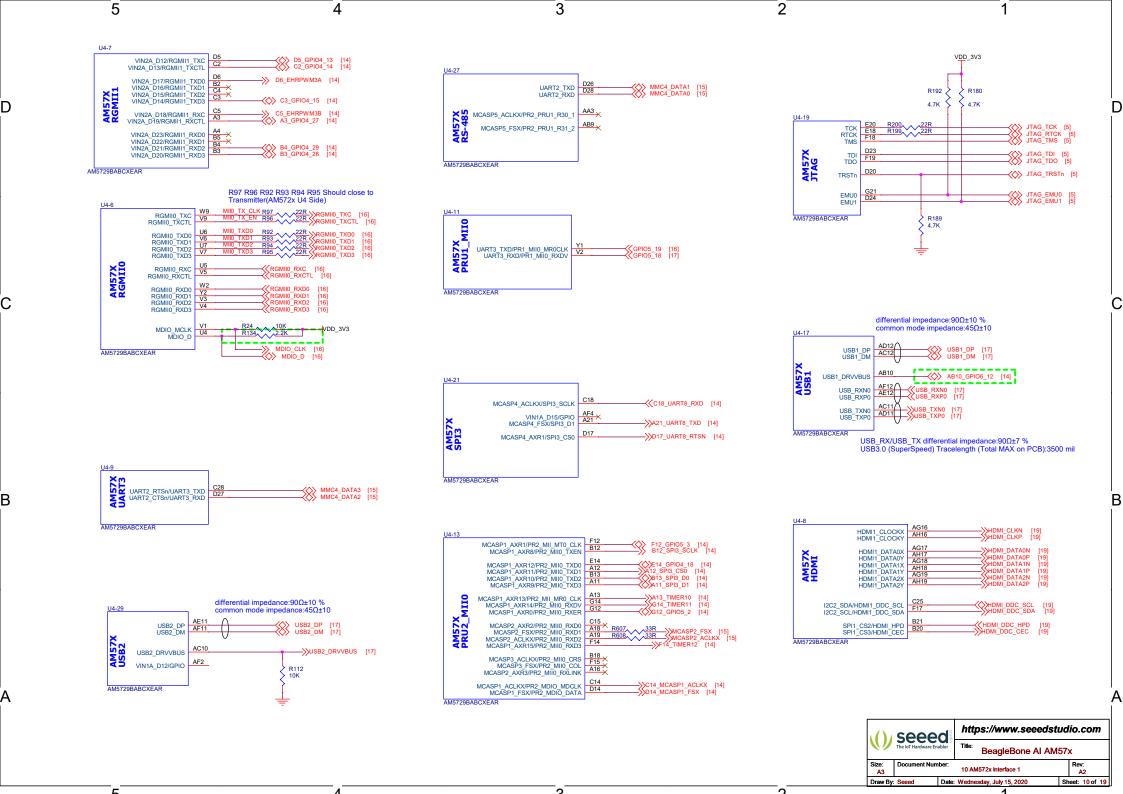


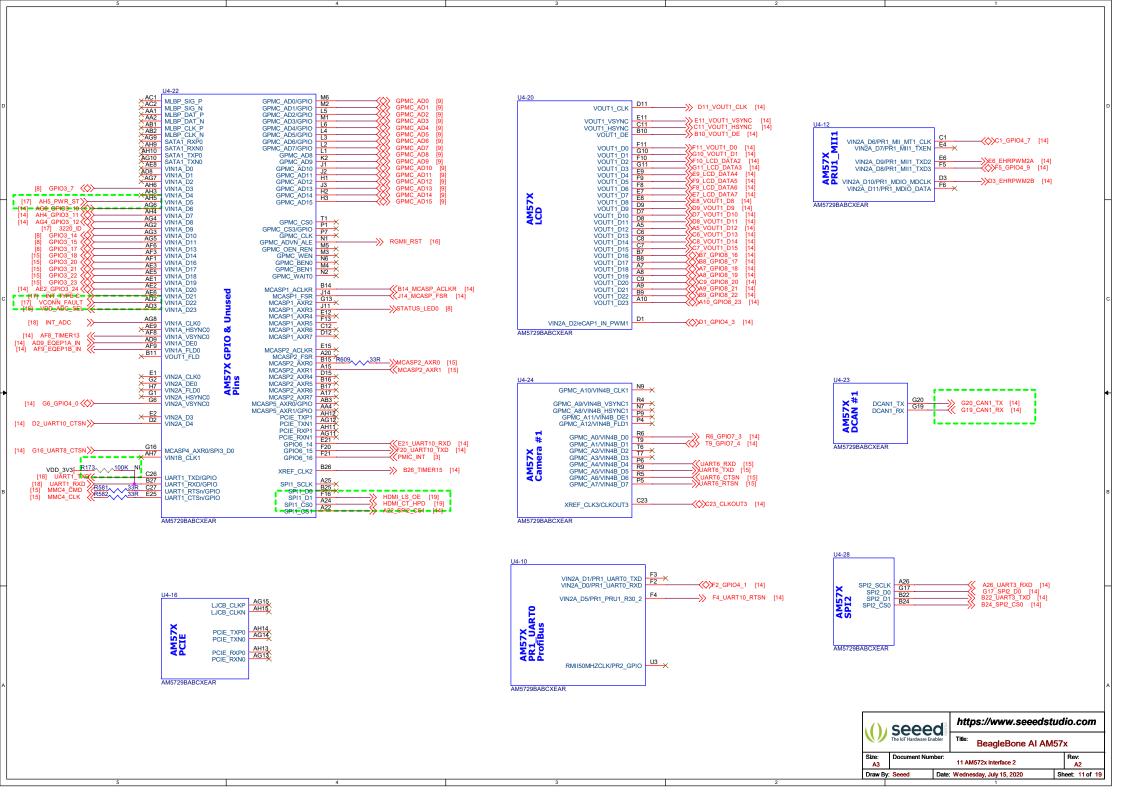
VTT SUPPLY

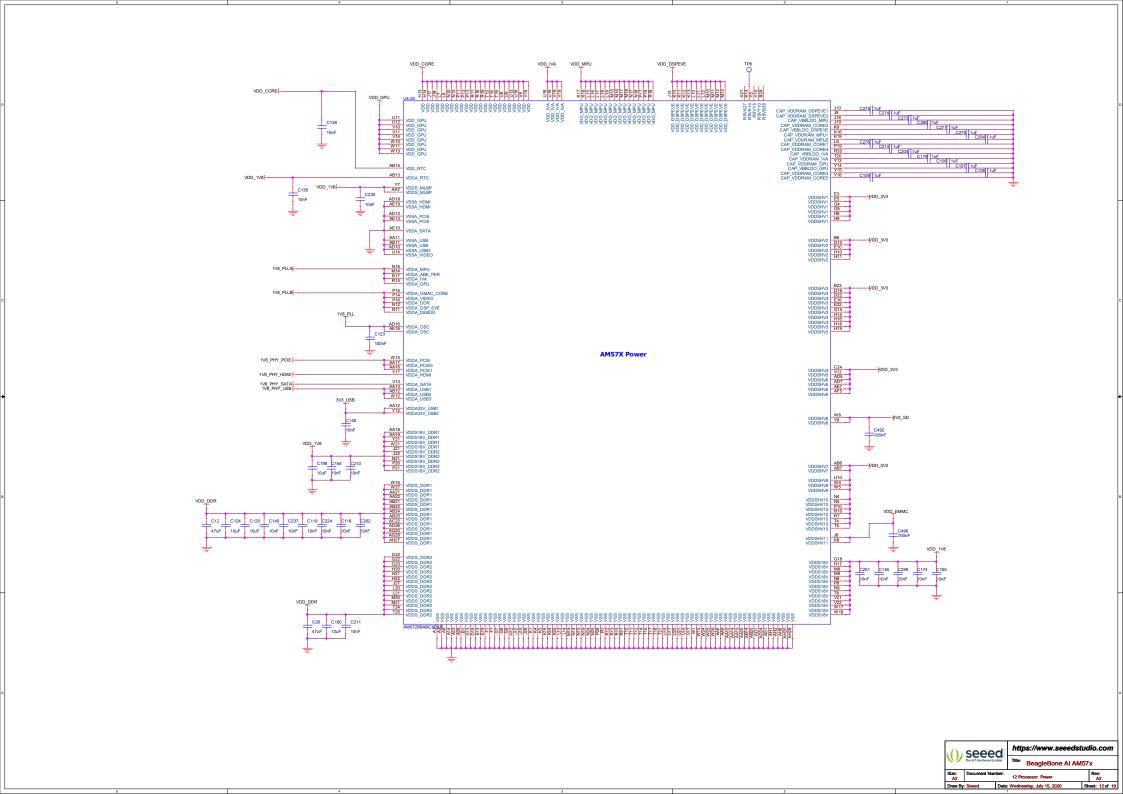


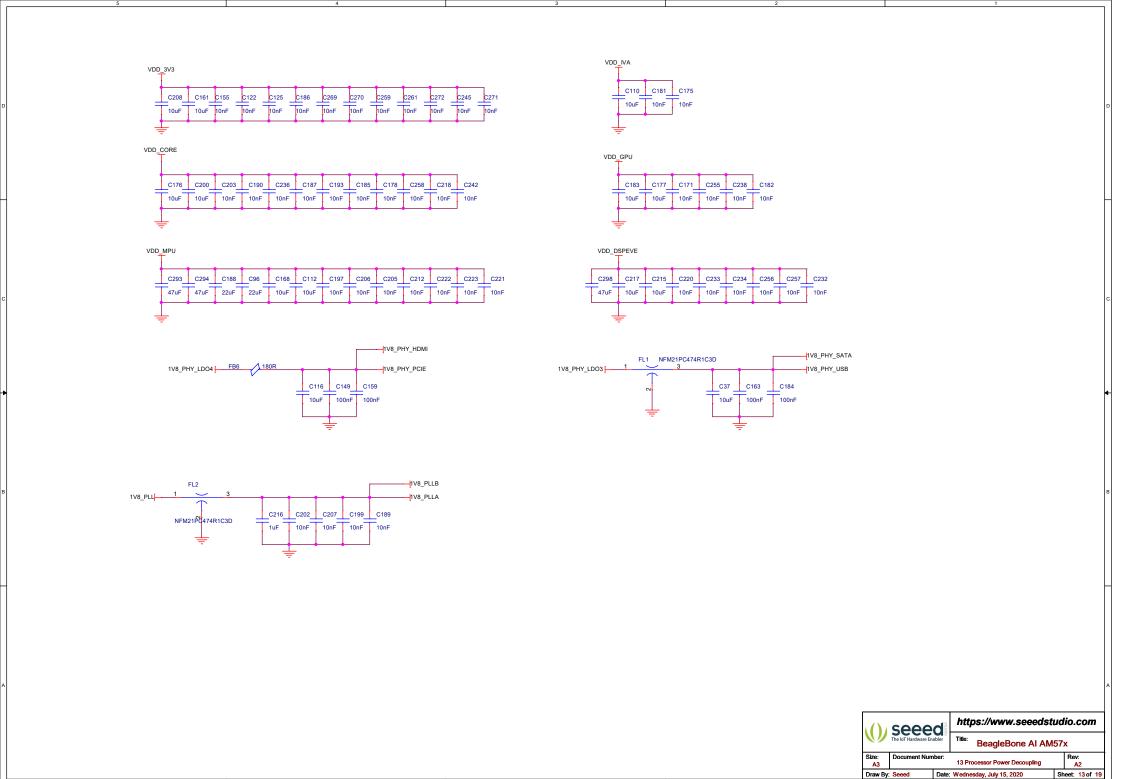
Λ	Seed The lot Hardware Enabler		https://www.seeedstudio.com			
W			Title:	BeagleBone Al AM57x		
Size:	Document Num	mber: 08 DDR VTT/LEDs			Rev: A2	
Draw By	Draw By: Seeed Date:		Wedne	sday, July 15, 2020	Sł	neet: 8 of 19

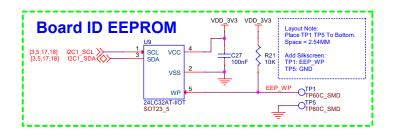


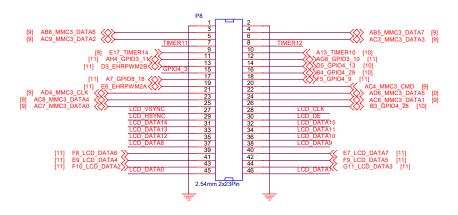




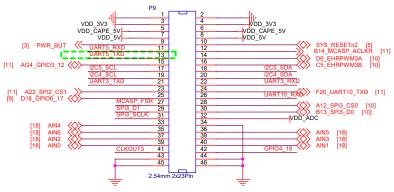


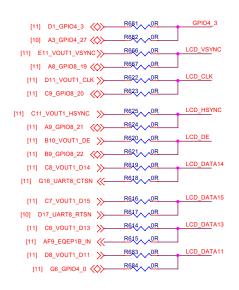


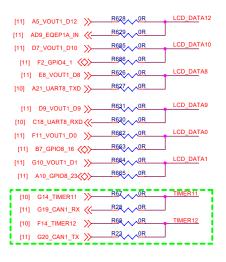


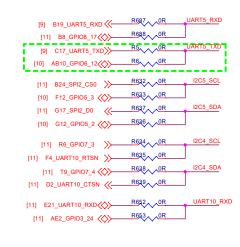


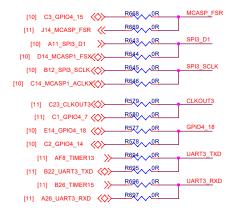




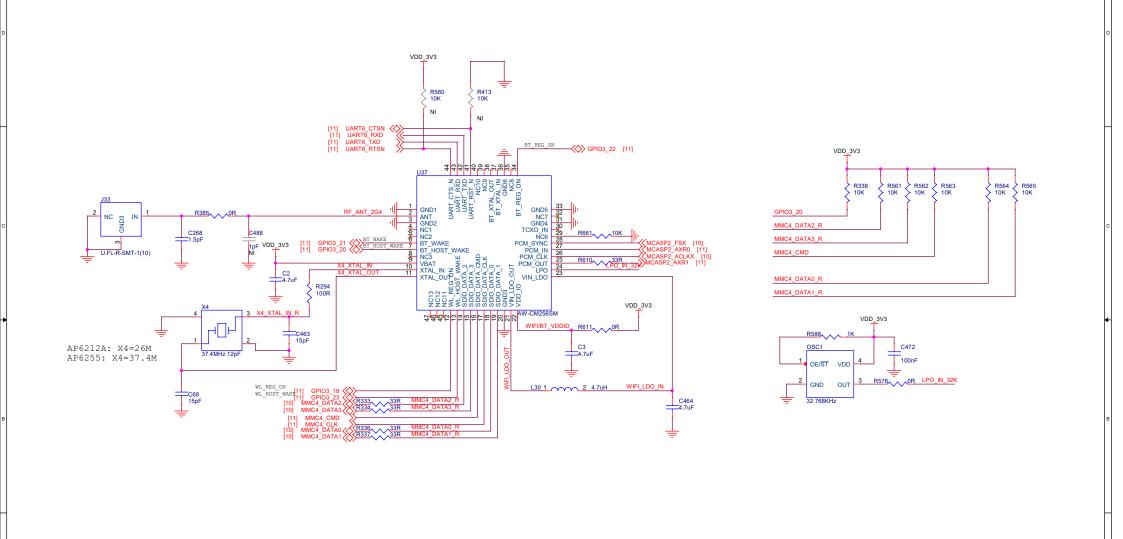




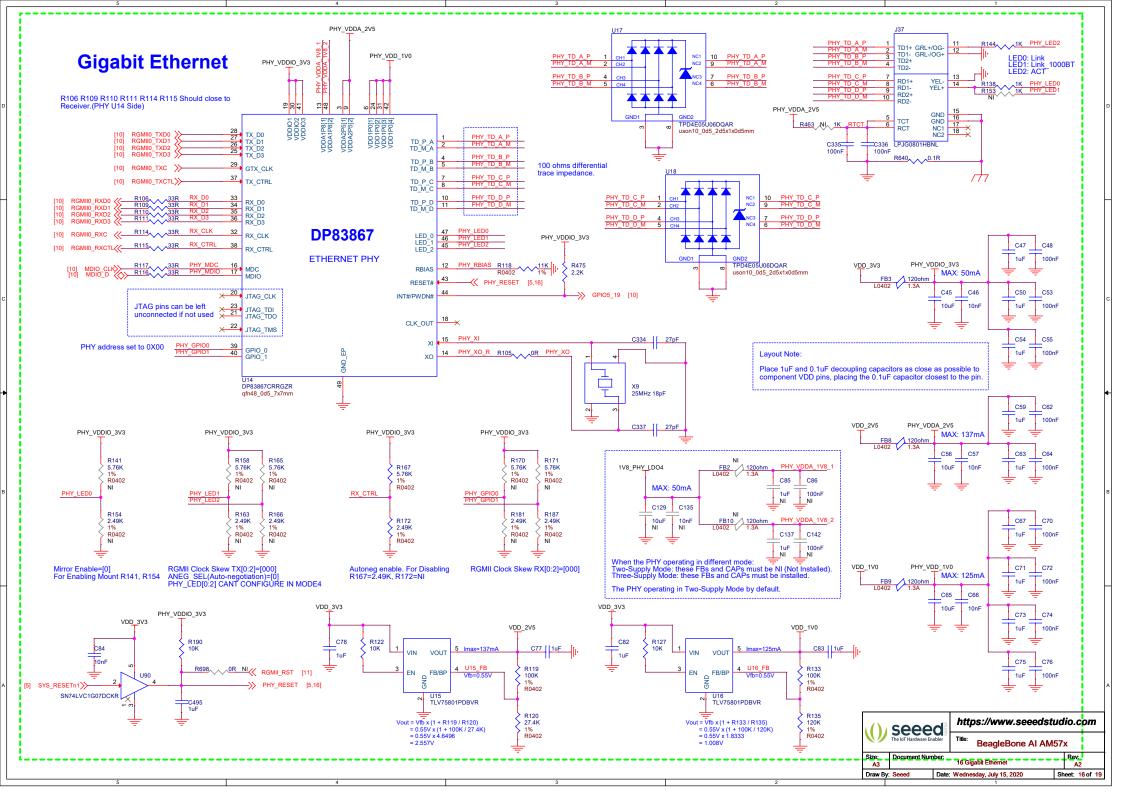


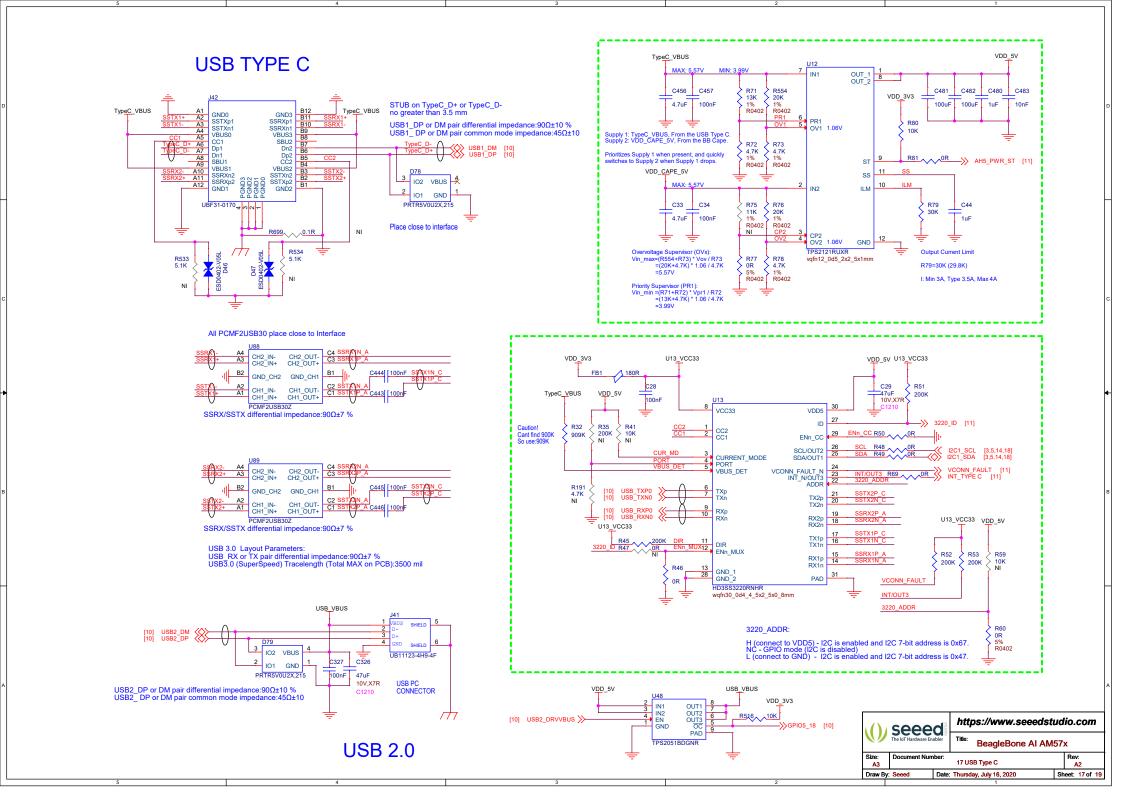












ADC

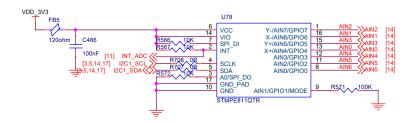
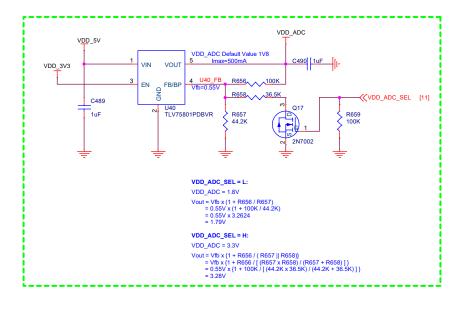
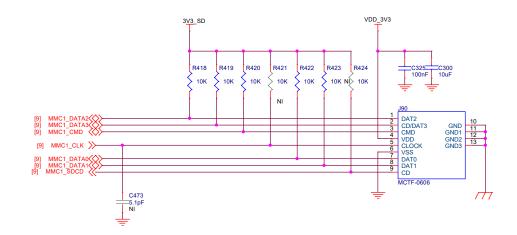


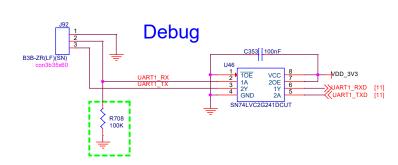
Table 6. I²C address

ADDR0	Address		
0	0 x 82		
1	0 x 88		



MicroSD CARD





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			abler	Title:	BeagleBone Al AM57x		
	Size: A3	Document Number: 18 ADC/TF/Debug				Rev: A2	
	Draw By: Seeed Date:		Wednesday, July 15, 2020		Sh	eet: 18 of 19	

