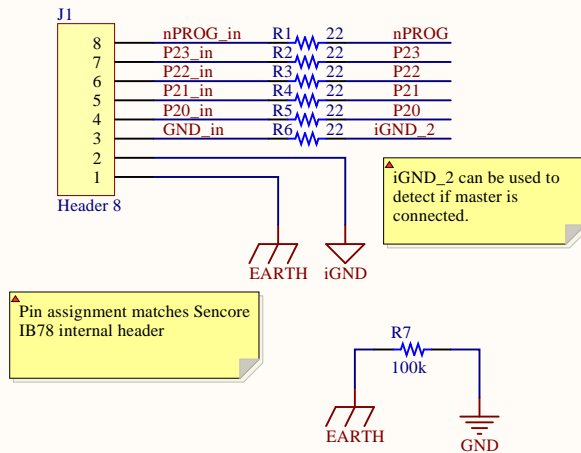
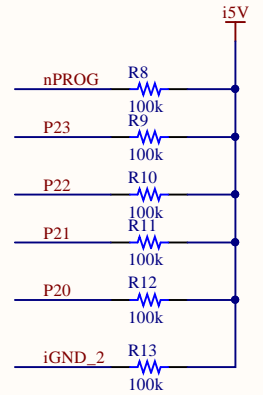


8243 Equivalent I/O

Input Header

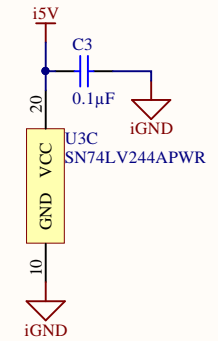
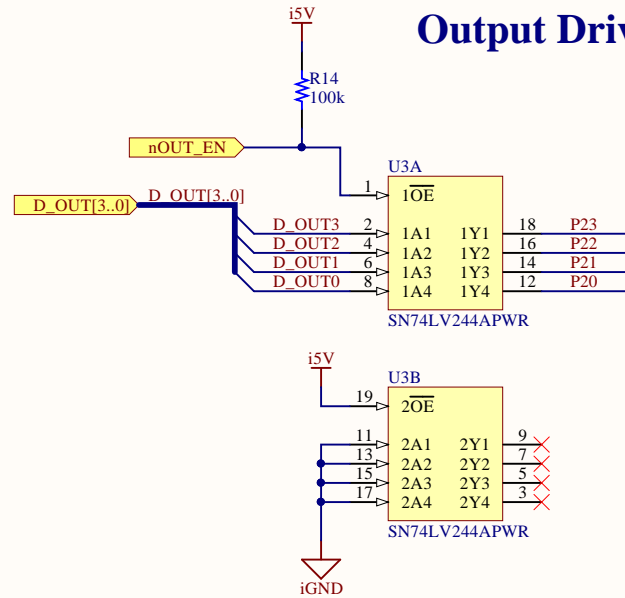


Input Pull-ups

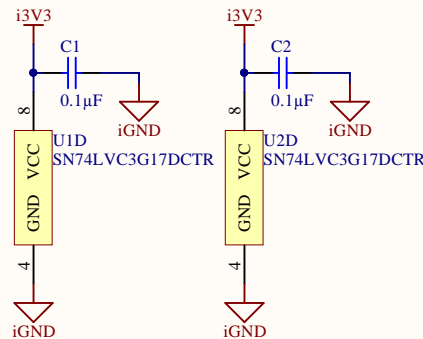
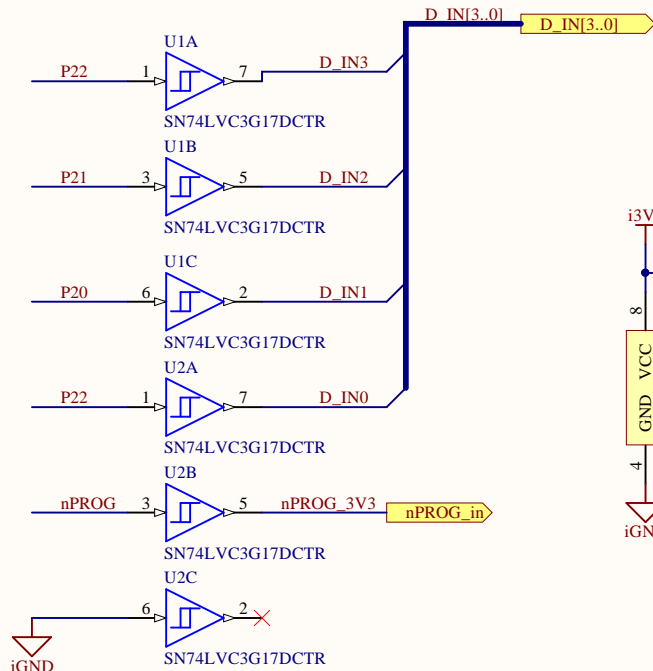


if 5V rail is 0V, pullups will not overpower LC102's internal 10k pullups.

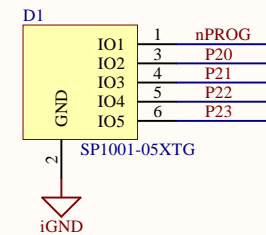
Output Drivers

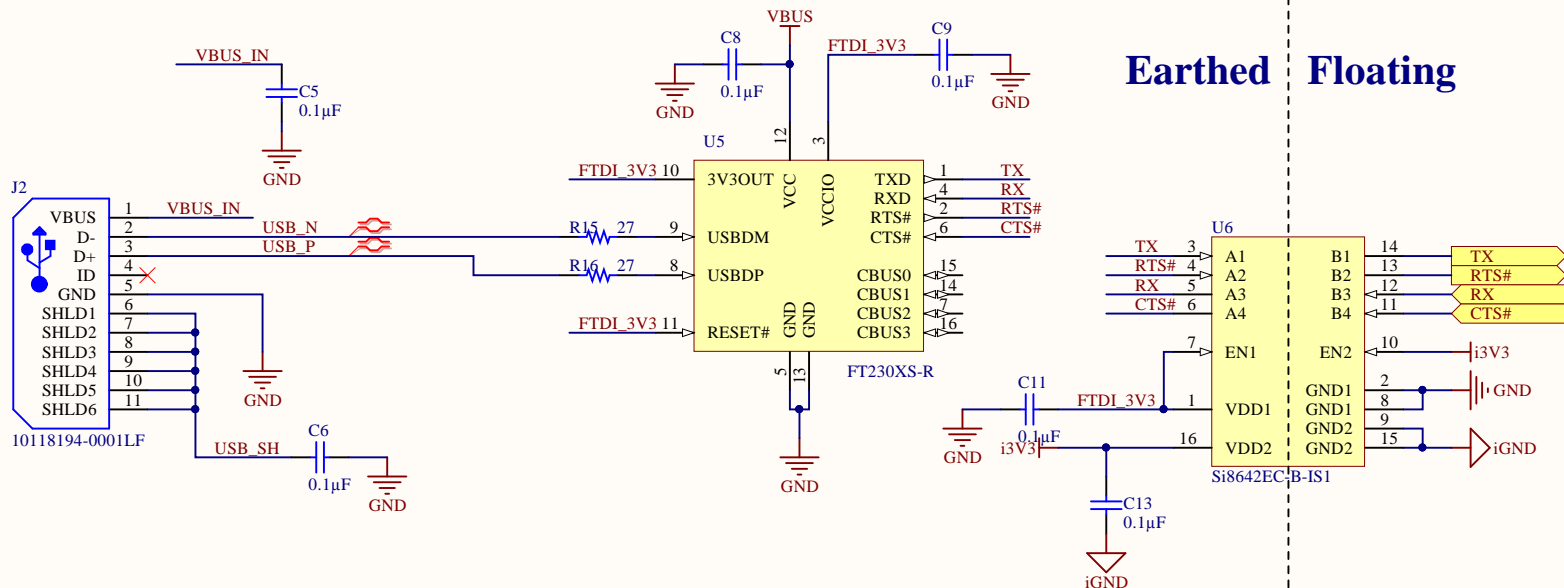


INPUT Level Translators

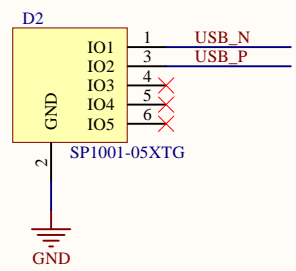


ESD Protection

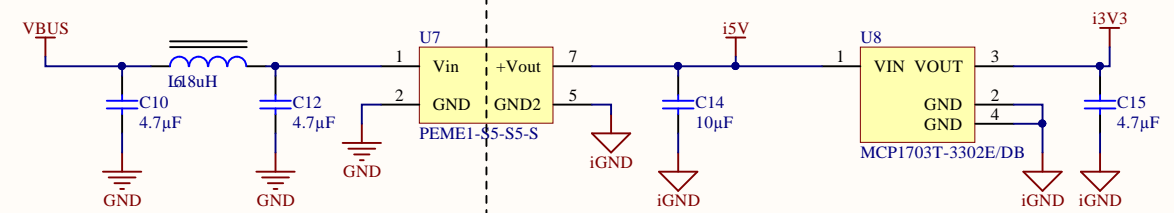
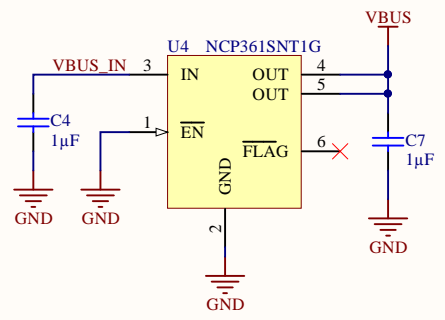


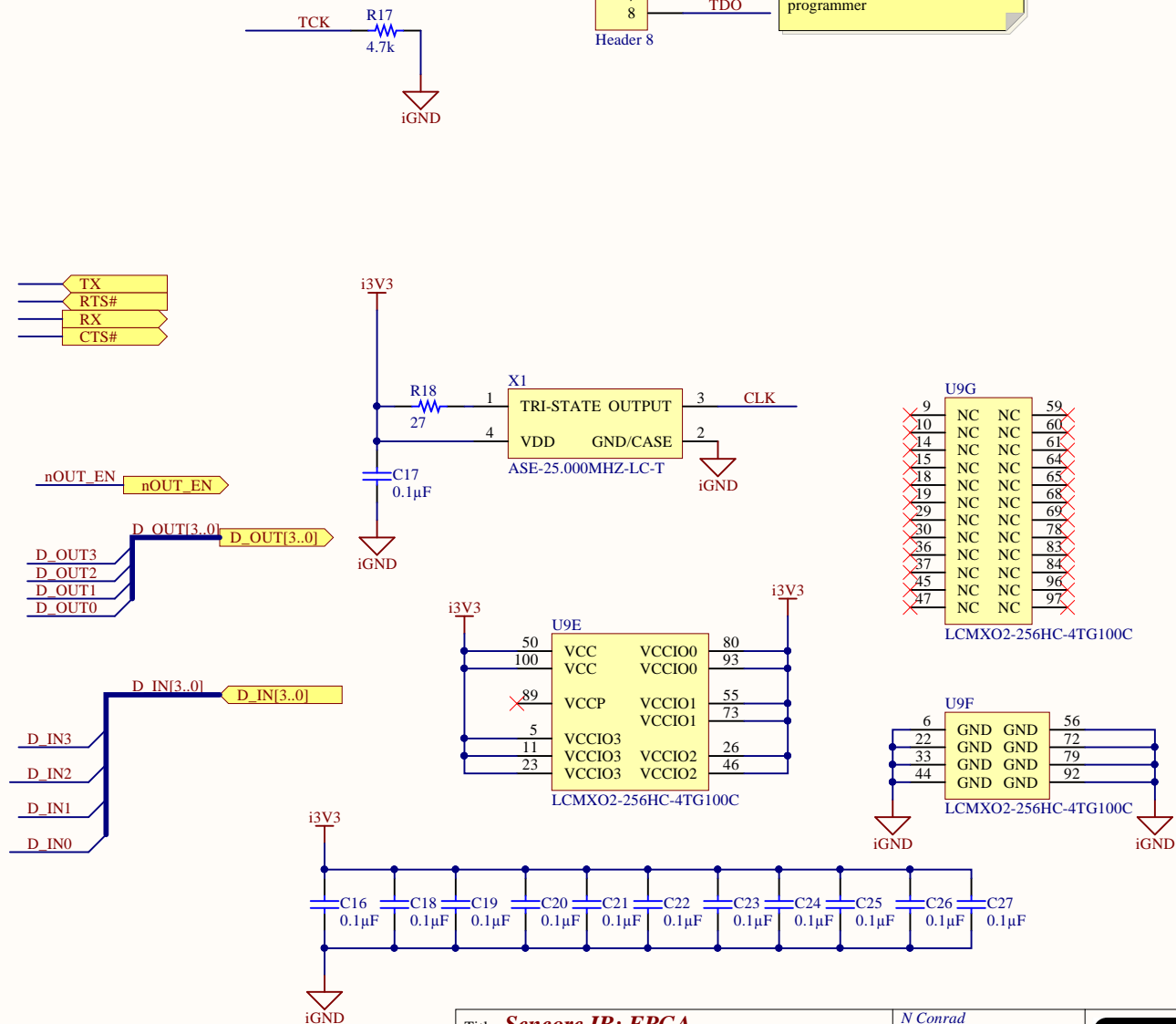
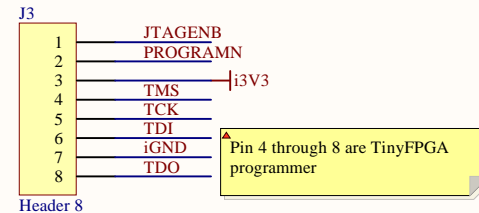
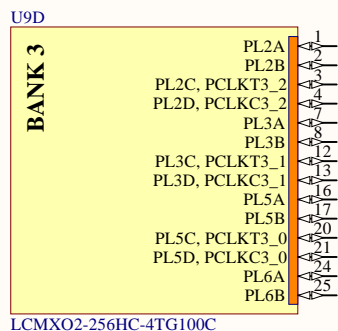
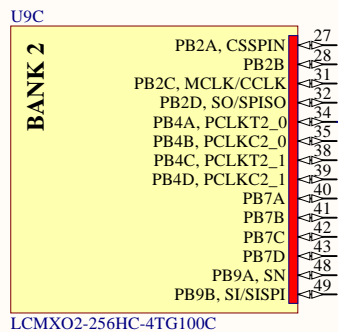
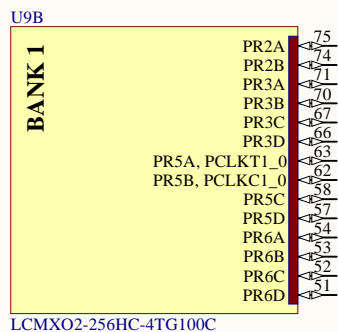
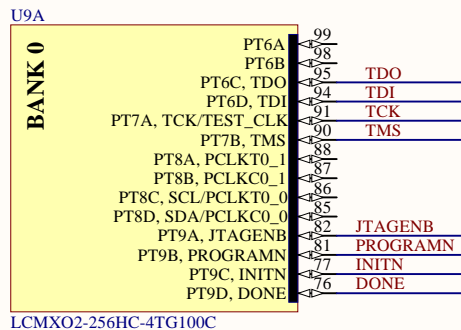


ESD Protection



USB Soft-start, OVP, OCP





Line #	Description	Designator	Quantity	Target Price	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
1	CAP CER 0.1UF 50V X7R 0603	C1-C3, C5, C6	21	0.21	Murata	GCJ188R71H104KA12D	Digi-Key	490-5798-1-ND	0.21	4.41
2	CAP CER 1UF 25V X7R 0603	C4, C7	2	0.31	Murata	GC M188R71E105KA64D	Digi-Key	490-10673-1-ND	0.31	0.62
3	CAP CER 4.7UF 25V X7S 0805	C10, C12, C15	3	0.49	Murata	GC M21BC 71E475KE36L	Digi-Key	490-14435-1-ND	0.49	1.47
4	CAP CER 10UF 10V X7R 0805	C14	1	0.62	Murata	GC M21BR71A106KE22K	Digi-Key	490-14531-1-ND	0.62	0.62
5	TVS DIODE 5.5VWM 13VC SOT563	D1, D2	2	0.6	Littelfuse	SP1001-05XTG	Digi-Key	F2898CT-ND	0.6	1.2
6	Header, 8-Pin	J1, J3	2	0						
7	MicroUSB B Type Receptacle, 1.8A, -55 to	J2	1	0.42	Amphenol FCI	10118194-0001LF	Digi-Key	609-4618-6-ND	0.42	0.42
8	FIXED IND 6.8UH 1.45A 117.6MOHM	L1	1	0.29	Taiyo Yuden	NRS4018T6R8MDGJ	Digi-Key	587-2894-1-ND	0.29	0.29
9	RES SMD 22 OHM 5% 1/10W 0603	R1-R6	6	0.02	Yageo	RC0603JR-0722RL	Digi-Key	311-22GRCT-ND	0.02	0.2
10	RES SMD 100K OHM 5% 1/10W 0603	R7-R14	8	0.02	Yageo	RC0603JR-07100KL	Digi-Key	311-100KGRCT-ND	0.02	0.2
11	RES SMD 27 OHM 5% 1/10W 0603	R15, R16, R18	3	0.02	Yageo	RC0603JR-0727RL	Digi-Key	311-27GRCT-ND	0.02	0.2
12	RES SMD 4.7K OHM 5% 1/10W 0603	R17	1	0.1	Yageo	RC0603JR-074K7L	Digi-Key	311-4.7KGRCT-ND	0.1	0.1
13	TRIPLE SCHMITT-TRIGGER BUFFER, DC	U1, U2	2	0.69	Texas Instruments	SN74LVC3G17DCTR	Mouser	595-SN74LVC3G17DCTR	0.69	1.38
14	Octal Buffers/Drivers With 3-State Output	U3	1	0.46546	Texas Instruments	SN74LV244APWR	Farnell	1619139	0.46546	0.46546
15	IC USB POS OVP/OCP 5TSOP	U4	1	0.73	ON Semiconductor	NC P361SNT1G	Digi-Key	NC P361SNT1GOSCT-ND	0.73	0.73
16	USB to Basic UART Interface Chip, UHC I	U5	1	1.96	FTDI	FT230XS-R	Farnell	2081321	1.96	1.96
17	Low-Power Quad-Channel Digital Isolator	U6	1	3.09	Silicon Labs	SI8642EC-B-IS1	Digi-Key	336-2094-5-ND	3.09	3.09
18	5Vdc, 0.2A, 1W, 4.5 ~ 5.5Vdc Input Ra	U7	1	0.29	Taiyo Yuden	NRS4018T6R8MDGJ	Digi-Key	587-2894-1-ND	0.29	0.29
19	250 mA, 16V, Low Quiescent Current LDO	U8	1	0.64	Microchip	MCP1703T-3302E/DB	Digi-Key	MCP1703T-3302E/DBDKF	0.64	0.64
20	MachXO2 High Performance CPLD with 25	U9	1	4.29	Lattice Semicondu	LCMXO2-256HC-4TG100C	Mouser	842-2256HC4TG100C	4.29	4.29
21	CMOS Crystal Oscillator, 3.3V, 25 MHz,	X1	1	1.09	Abracon	ASE-25.000MHZ-LC-T	Newark	84R2104	1.09	1.09