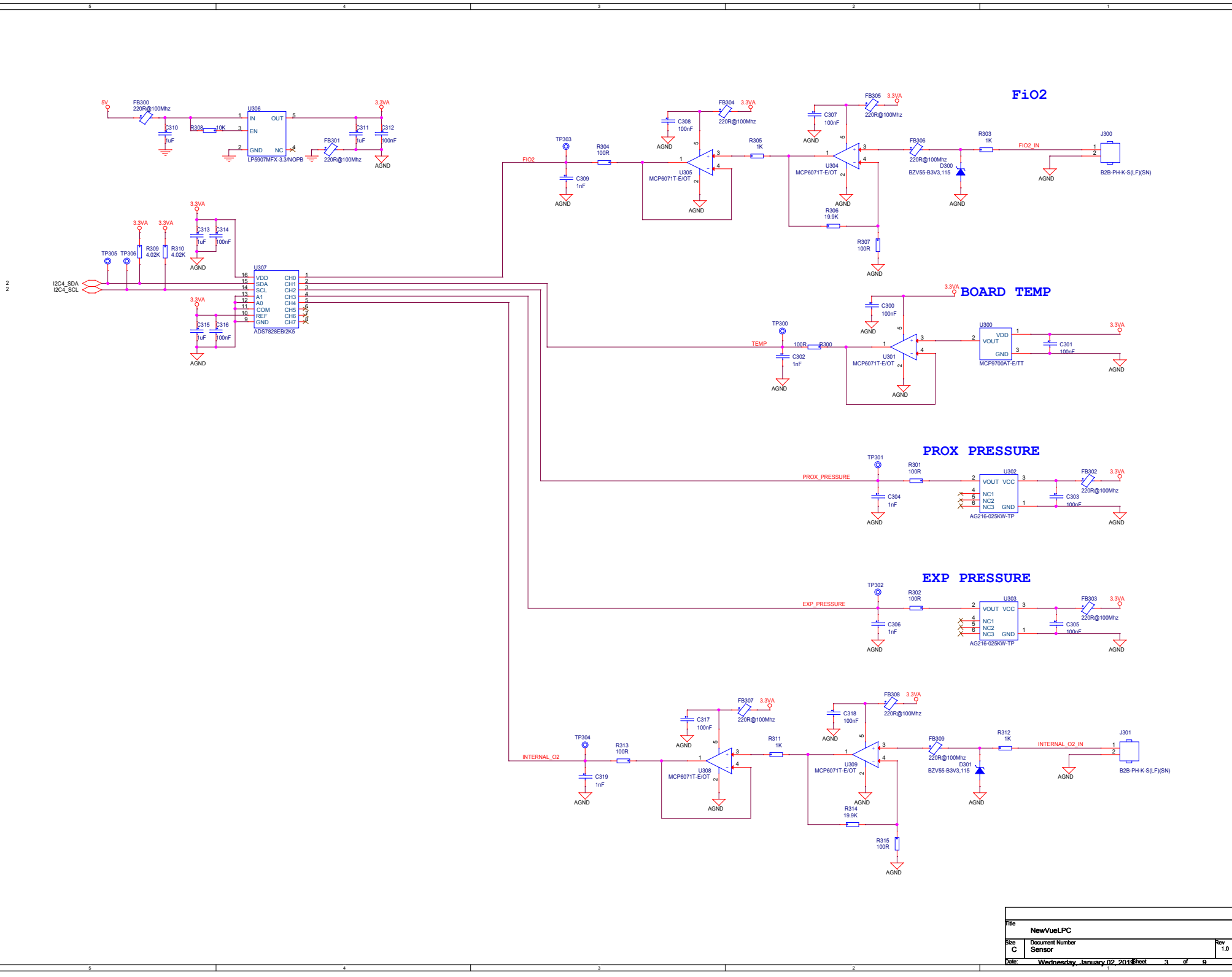


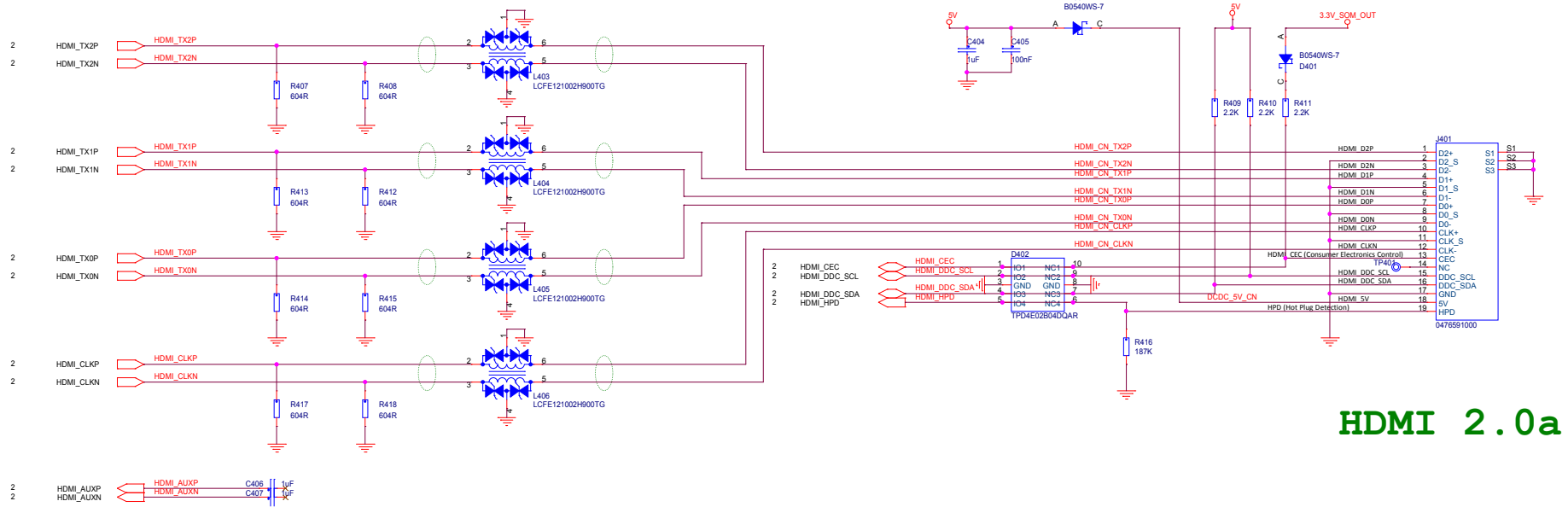
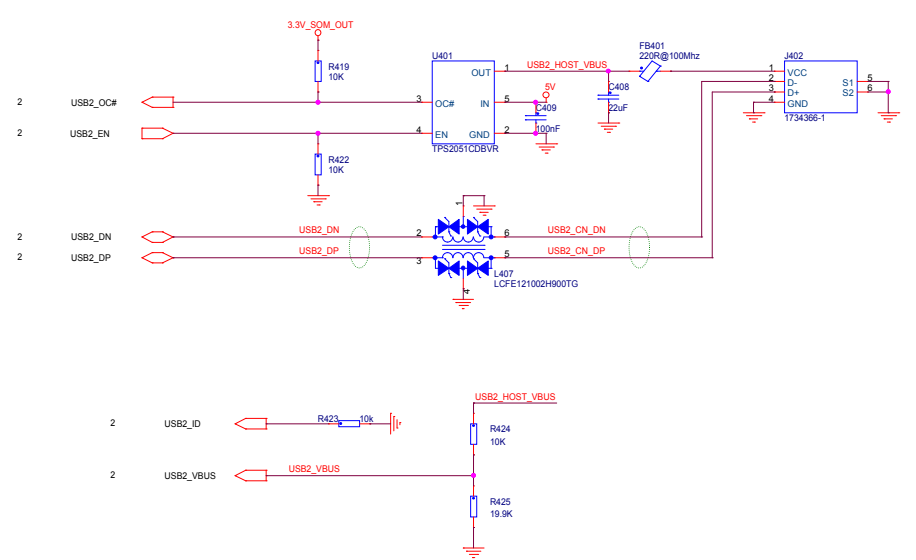
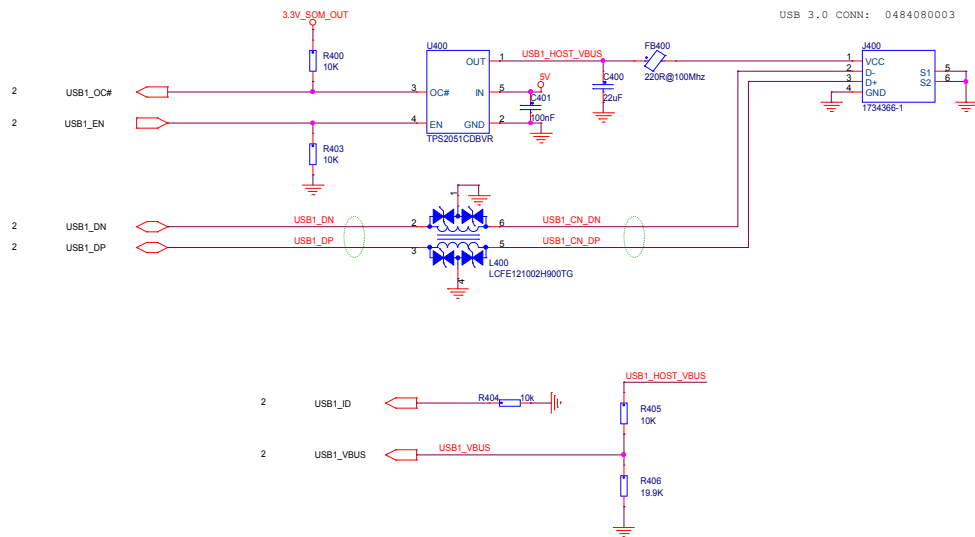
Screw Hole & GND Testpoint

Title		NewVueLPC
Size	Document Number	Power Supply
C	Rev	1.0
Date:	Sunday, December 30, 2018, 8:00	1 of 9



Title			
NewVueLPC			
Size	Document Number		Rev
C	Sensor		1.0
Date: Wednesday, January 02, 2019			
Sheet 3 of 9			

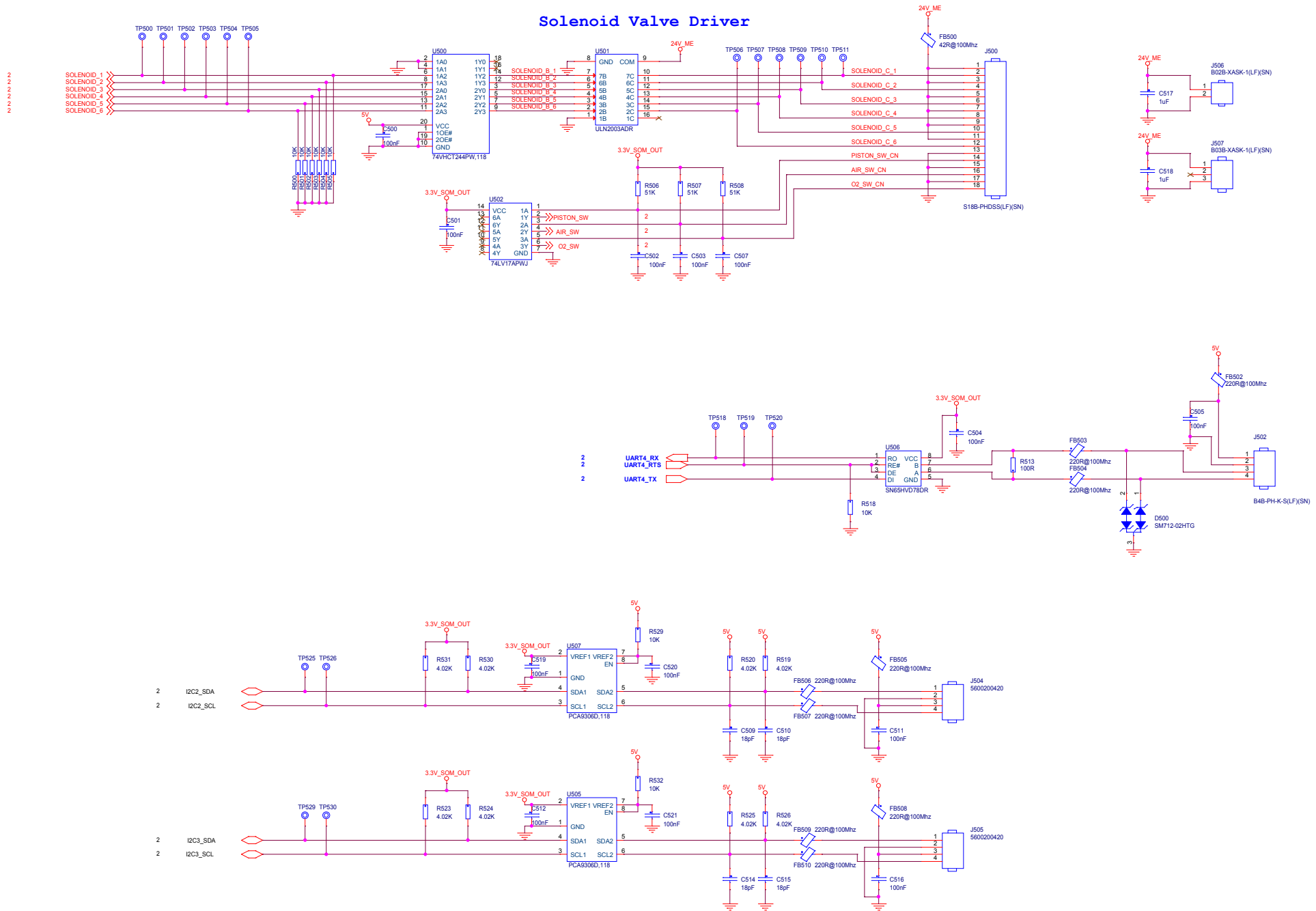
USB 2.0

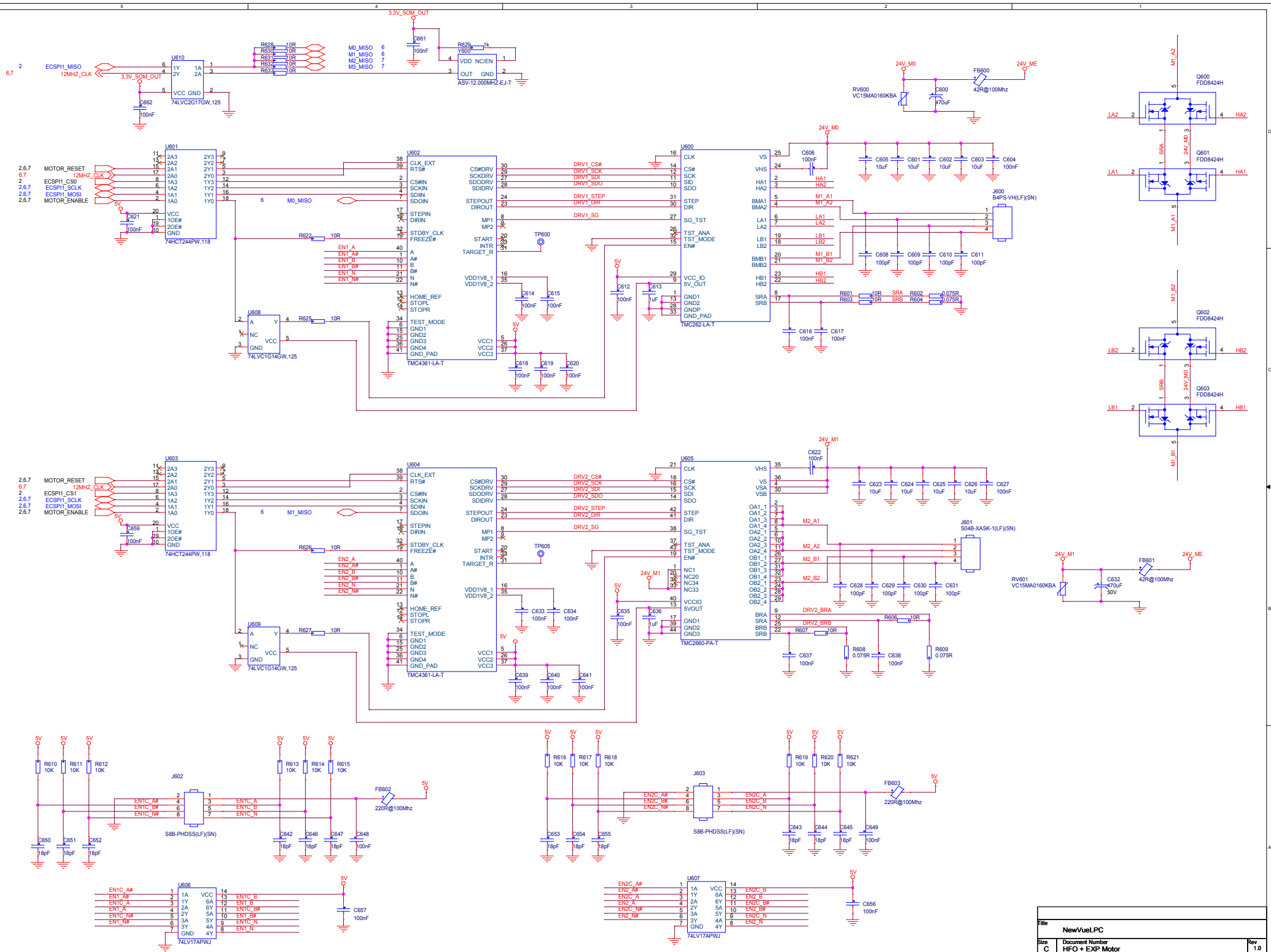


HDMI 2.0a

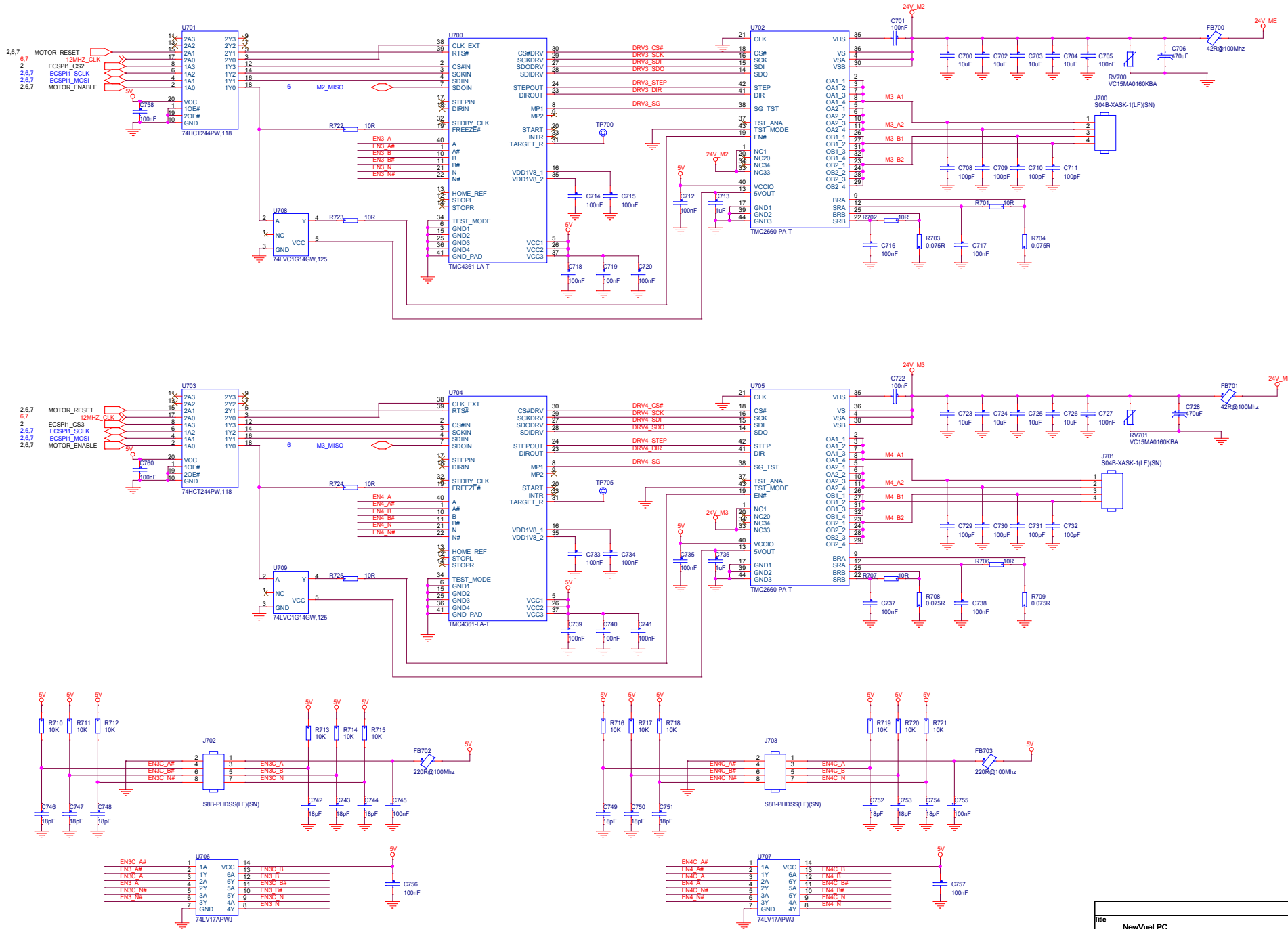
Title		
NewVueLPC		
Size	Document Number	Rev
C	USB	1.0
Date:	Saturday, December 29, 2018	
Sheet	4	of 9

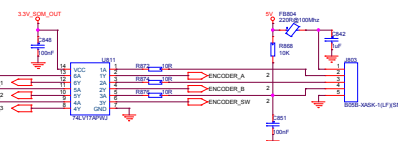
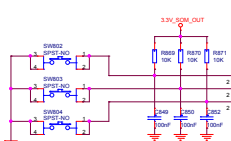
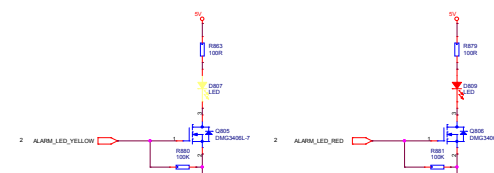
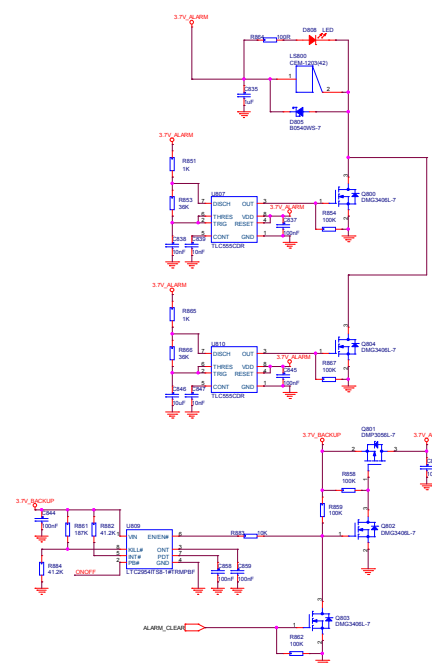
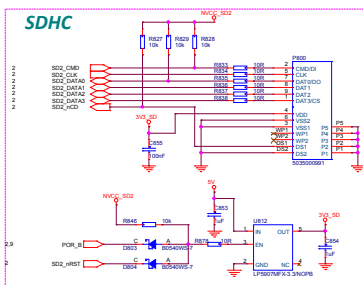
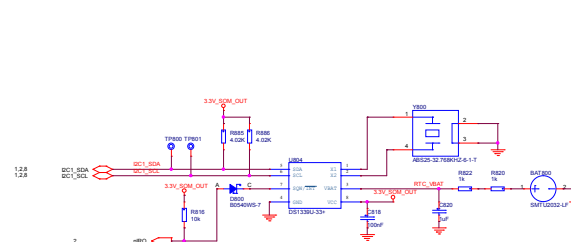
Solenoid Valve Driver





Title		NewVueLPC
Size	Document Number	HFO + EXP Motor
C		
Date:	Sunday, December 30, 2018	Sheet 6 of 9

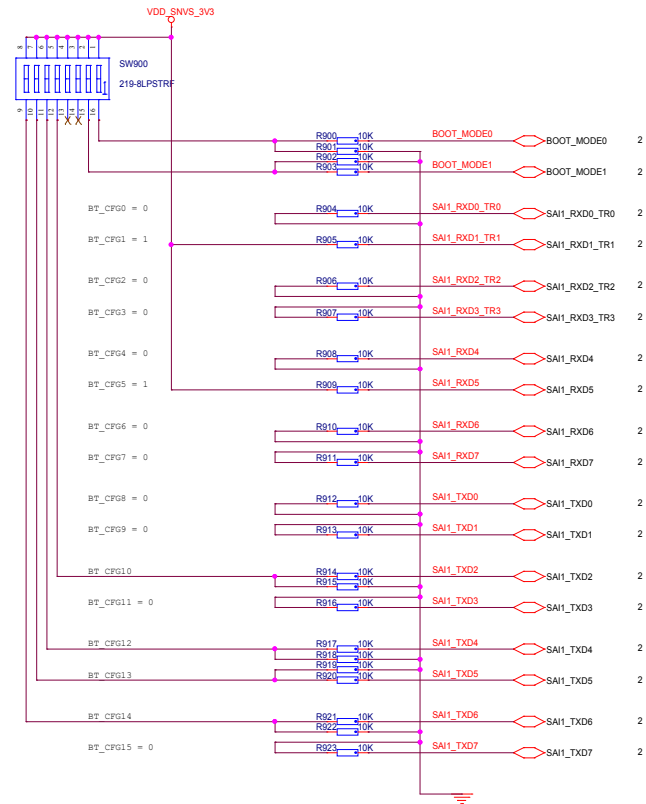




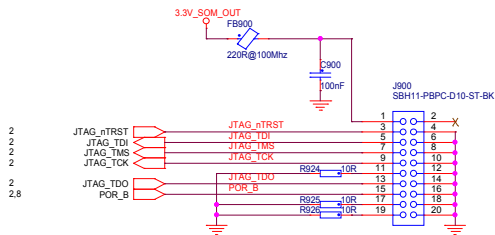
encoder

iMX8M Boot Configs

Address		7	6	5	4	3	2	1	0
	0x470[15:8]	BOOT_CFG[15]	BOOT_CFG[14]	BOOT_CFG[13]	BOOT_CFG[12]	BOOT_CFG[11]	BOOT_CFG[10]	BOOT_CFG[9]	BOOT_CFG[8]
	0x470[15:8]	Infini-Loop (Debug USE only) 0 - Disable 1 - Enable	001 - SD/eSD			Port Select: 00 - eSDHC1 01 - eSDHC2		Power Cycle Enable '0' - No power cycle '1' - Enabled via	SD Loopback Clock Source Sel (for SDR50 and SDR104 only) '0' - through SD pad '1' - direct
	0x470[15:8]		010 - MMC/eMMC						
	0x470[15:8]		011 - NAND			Pages In Block: 00 - 128 01 - 64 10 - 32 11 - 256		Nand_Row_address_bytes: 00 - 3 01 - 2 10 - 4 11 - 5	
	0x470[15:8]		100 - QSPI			QSPI Instance 0 - QuadSPI0 1 - Reserved	SDR SMP: "000" : Default "001-111"		
	0x470[15:8]		110 - SPI NOR			Port Select: 000 - eCSPI1 001 - eCSPI2			SPI Addressing: 0 - 3-bytes (24-bit) 1 - 2-bytes (16-bit)
	0x470[15:8]	Others - Reserved for future use							
		BOOT_CFG[7]	BOOT_CFG[6]	BOOT_CFG[5]	BOOT_CFG[4]	BOOT_CFG[3]	BOOT_CFG[2]	BOOT_CFG[1]	BOOT_CFG[0]
SD/eSD	0x470[7:0]	Fast Boot: 0 - Regular 1 - Fast Boot	Reserved		Reserved	Bus Width: 0 - 1-bit 1 - 4-bit	Speed 000 - Normal/SDR12 001 - High/SDR25 010 - SDR50 011 - SDR104 101 - Reserved for DDR50 Others - Reserved		Reserved
MMC/eMMC	0x470[7:0]		Bus Width: 000 - 1-bit 001 - 4-bit 010 - 8-bit 101 - 4-bit DDR (MMC 4.4) 110 - 8-bit DDR (MMC 4.4) Else - reserved.				Speed 00 - Normal 01 - High 10 - Reserved for HS200 11 - Reserved	USDHC1 IO VOLTAGE SELECTION 0 - 3.3V 1 - 1.8V	USDHC2 IO VOLTAGE SELECTION 0 - 3.3V 1 - 1.8V
NAND	0x470[7:0]	BT_TOGGLEMODE	BOOT_SEARCH_COUNT: 00 - 2 01 - 2 10 - 4 11 - 8		Toggle Mode 33MHz Preamble Delay, Read Latency: '000' - 16 GPMICLK cycles. '001' - 1 GPMICLK cycles. '010' - 2 GPMICLK cycles. '011' - 3 GPMICLK cycles. '100' - 4 GPMICLK cycles. '101' - 5 GPMICLK cycles. '110' - 6 GPMICLK cycles. '111' - 7 GPMICLK cycles. '1111' - 15 GPMICLK cycles.				Reserved
QSPI	0x470[7:0]	HSPHS: Half Speed Phase Selection 0 : select sampling at non-inverted clock 1: select sampling at inverted clock	HSDLY: Half Speed Delay selection 0 : one clock delay 1: two clock delay	FSPHS: Full Speed Phase Selection 0 : select sampling at non-inverted clock 1: select sampling at inverted clock	FSDLY: Full Speed Delay selection 0 : one clock delay 1: two clock delay	Reserved	Reserved	Reserved	Reserved
SPINOR	0x470[7:0]	CS select (SPI only): 00 - CS#0 (default) 01 - CS#1 10 - CS#2 11 - CS#3		Reserved	Reserved	Reserved	Reserved	Reserved	Reserved



NOTE:
1. Place tables BOOT TYPE and BOOT_CFG on the bottom silkscreen layer
2. It is possible to reorder the nets with purpose to simplify layout
In case of reorder, please provide the schematic for review



JTAG

BOOT TYPE	SW1	SW2
Boot From Fuses	0	0
Serial Downloader	0	1
Internal Boot (Development)	1	0
Reserved	1	1

BOOT CFG	SW5	SW6	SW7	SW8
EMMC	0	0	1	0
SD	1	1	0	0